

# The National Locksmith<sup>®</sup>

Shop the online store!  
[TheNationalLocksmith.com](http://TheNationalLocksmith.com)

March 2003  
Volume 74  
No. 3  
\$7.00



**ELECTROMAGNETIC  
LOCKS & STRIKES**



# Take Control...Demand HPC!



Pictured from left to right starting at the top:  
 KEKAB-T300X, KEKAB-160X, FXC-18, KEKAB-T80X, KEKAB-U50,  
 SK-25, 511, KEKAB-DL65, WS-200C, KEP-15-301,  
 KEP-M2-301, MEDI-KAB 6, KEP-16-95, KEKAB-C40, WS-100,  
 KEKAB-T30, KEP-12-81, KEKAB-30, KEP-5-95, KEKAB-8,  
 KB-10P, SK-90, KEKAB-H48, KEKAB-8 RED, KEKAB-120.

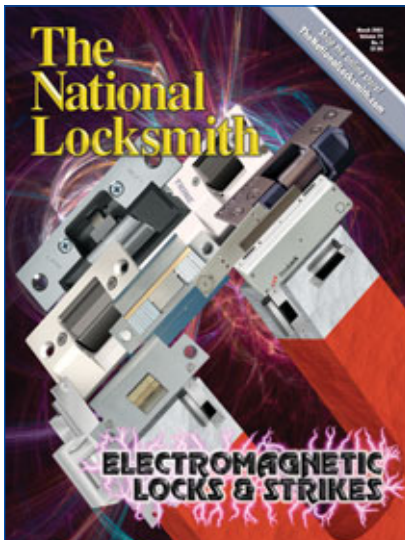


**HPC, Inc.**  
 3999 N. 25th Ave.  
 Schiller Park, IL 60176 USA  
 Tel: 847.671.6280  
 Fax: 847.671.6343  
[www.hpcworld.com](http://www.hpcworld.com)

Learn all about these products and many more at [www.hpcworld.com](http://www.hpcworld.com)

Circle 232 on Rapid Reply

## On The Cover...



Mag locks and electric strikes are now available for just about any application. The choice in sizes, holding force, and special features are now greater than ever.

**Publisher** ..... Marc Goldberg  
**Editor** ..... Greg Mango  
**Art Director** ..... Jim Darow  
**Technical Editor** ..... Jake Jakubowski  
**Senior Writers**  
 Sal Dulcamaro CML, Michael Hyde, Dale Libby  
 CMS, Dave McOmie, Sara Probasco,  
 Robert Sieveking  
**Contributing Writers**  
 John Blankenship, Tony Blass, Carl Cloud,  
 Ron & Chris Curry, Mark Daniel, Richard Allen  
 Dickey, William C. Deutsch, Giles Kalvelage,  
 Tom Lynch, Tom Mazzone, Randy Mize, Tom  
 Seroogy, Don Shiles, Jeffery M. Trepanier  
**Director of Sales & Marketing** ..... Jeff Adair  
**Advertising Account Manager** ..... Debbie Schertzing  
**Accounting Manager** ..... Sheila Campo  
**Production Assistants**  
 Dave Krofel, Joseph Bonus  
**Administrative Assistants**  
 LaVerne Schertzing, Chandra Smith  
**Shipping Manager** ..... Allan Galvez

### National Publishing Company

The National Locksmith® ISSN #0364-3719 is published monthly by the National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861. Periodicals postage paid at Bartlett, Illinois 60107 and additional mailing offices USPS 040110. Subscriptions \$46.00 per year in the USA: \$58.00 per year in Canada; \$72.00 in all other countries. Single copies \$7.00 each. Postmaster, please send change of address to National Publishing Co., 1533 Burgundy Parkway, Streamwood, Illinois 60107-1861.  
 ©2003 by the National Publishing Company.  
 All rights reserved. Printed in the U.S.A.



(630) 837-2044 • Fax: (630) 837-1210  
 E-Mail: natlock@aol.com  
 See us on the World-Wide Web:  
[www.TheNationalLocksmith.com](http://www.TheNationalLocksmith.com)

# CONTENTS

The National Locksmith®

March 2003 • Vol. 74, No. 3

## FEATURES

### 16 COVER FEATURE

#### Locks, Latches And Strikes

A locksmith's guide to selecting an electric door strike.



### 24 COVER FEATURE

#### Electric Strikes And MAG Locks

Everything's getting smaller and stronger.



### 32

#### Quick Entry Update

2003 Cadillac CTS.



### 38

#### 2001 Mazda Tribute, Part 1

A brother to the Ford Escape.



### 42

#### ISC West Product Showcase

New offerings at this years show.



### 48

#### Marks Classroom Intruder Lock

Tackles the problem of a hallway aggressor.



### 54

#### Software

A variety of locksmith related software and contact info.



### 62

#### Trilogy Alarm Lock

Features installation of this popular product.



### 68

#### A Tale Of Two Gun Safes

Two gun safes, two modes of attack.



### 96

#### 2002 Honda Reflex

Two new scooters from Honda.



### 103

#### Bommer

1-1650, for Anderson Hickey cabinets.



### 117

#### TheNationalLocksmith.com

Visit us online for technical forums, chat, online store plus visit our sponsors.

## DEPARTMENTS

### 5 Commentary

### 6 Mango's Message

### 10 Letters

### 12 Security Cafe

### 74 Beginner's Corner

### 78 The Lighter Side

### 80 Business Briefs

### 88 Technitips

### 118 Test Drive



*Now Shipping!*

**Secure Extra  
Heavy-Duty Grade 1  
Pushbutton Lock**

**Convenient  
Keyless Security**

**Non-Handed**

**Easy To Install**

**Two-Year Warranty**



# **BUILT STRONG ENOUGH TO PROTECT YOUR REPUTATION.**

**SIMPLEX®  
5000**

For simple, powerful access control, count on the strength, convenience and flexibility of our new Simplex® 5000. Its strength comes from internal drive parts of cast stainless steel and our clutch-free direct-drive design. You've got the convenience of keyless entry with no cards or keys, low maintenance with no

batteries to maintain, and quick installation since there is no wiring. You also get the flexibility of many cylinder options and combinations that change in seconds. And it's made in the USA. To learn more, or to test a lock, call **800-849-8324** and ask our customer service department for the dealer nearest you.



**KABA®**  
TOTAL ACCESS



# COMMENTARY



## Slip InstaCode in your pocket!



**S**ick of carrying a laptop around with you? Or tired of calling the shop to retrieve a code? Pocket InstaCode has all the important features of the InstaCode program, packed into a program small enough to run on a Pocket PC. Pocket PC's are the size of a "Palm Pilot" style device (slightly larger than a

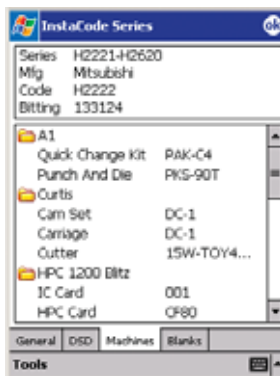
mobile phone), yet advances in technology allow them to be almost as powerful as a laptop PC. Pocket InstaCode takes advantage of these new technologies by providing the locksmith with a powerful, feature packed and extremely compact solution for code and information retrieval.



**1** Open Pocket InstaCode and the "Search" Window is ready for you to find your code. Simply enter the known information, click FIND and your code appears on screen.



**2** All Space and Depth information is displayed in your choice of inches or millimeters.

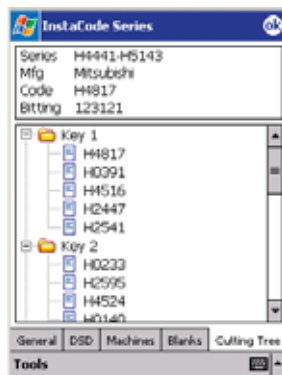


**3** Choose "Machines" and get the card number, cutter information, jaw side, and alignment for your key cutting machine.

**4** Select "Blanks" and get a comparative cross reference. This gives you the matching blank for your preferred key numbering system.



**5** Only got a part of the bitting? Enter the known information in "Find Bitting." The program finds the missing information.



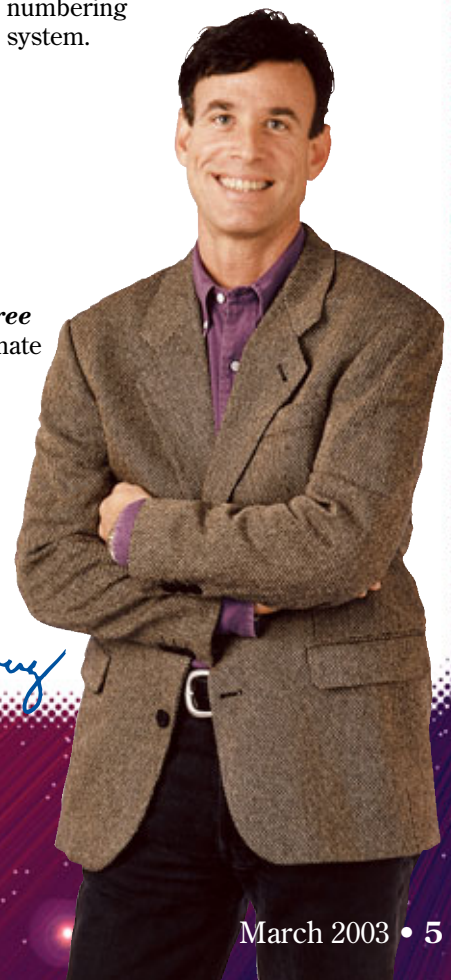
**6** An on screen Cutting Tree helps eliminate key blank waste.

**Pocket InstaCode** requires a Pocket PC with 64mb RAM running "Microsoft Pocket PC2000" or later. Pricing is on Pocket InstaCode is discounted to those who are already users of InstaCode.

In North America contact *The National Locksmith*, 630-837-2044. In Australia contact Locksmith Supply Co. In the UK contact Citysafe Wholesale.

*Marc Goldberg*

**Marc Goldberg**  
Publisher





# Mango's Message

## Master Key Vulnerabilities Revealed, Part 1

### The Secret Is Out!

**O**n January 23, 2003 The New York Times (with 1,113,000 readers and another 10 million who visit their web site) printed an article titled: Master Key Copying Revealed, by John Schwartz. As I reviewed this article and researched the source of information for an editorial, a number of related topics developed that I felt were worth examining and addressing. As a result, it would be impossible to thoroughly explore and present the forensic findings in my standard one or two page editorial. So, over the next few months, I am going to present you with various excerpts on the topic of master key vulnerabilities, including the public dissemination of information, bypass practices and procedures, and philosophical debates from the experts for you to consume, contemplate, and then comment on. Ladies and gentlemen of the jury, the court is now in session.

To start, I present you with the article featured on the front page of the business section (Late Edition - Final, Section C, Page 1, Column 5) in The New York Times newspaper.

### Master Key Copying Revealed

By JOHN SCHWARTZ

**A** security researcher has revealed a little-known vulnerability in many locks that lets a person create a copy of the master key for an entire building by starting with any key from that building.

The researcher, Matt Blaze of AT&T Labs-Research, found the vulnerability by applying his area of expertise - the security flaws that allow hackers to break into computer networks - to the real-world locks and keys that have been used for more than a century in office buildings, college campuses and some residential complexes.

The attack described by Mr. Blaze, which is known by some locksmiths, leaves no evidence of tampering. It can be used without resorting to removing the lock and taking it apart or other suspicious behavior that can give away ordinary lock pickers.

All that is needed, Mr. Blaze wrote, is access to a key and to the lock that it opens, as well as a small number of uncut key blanks and a tool to cut them to the proper shape. No special skills or tools are required; key-cutting machines costing hundreds of dollars apiece make the task easier, but the same results can be achieved with a simple metal file.

After testing the technique repeatedly against the hardware from major lock companies, Mr. Blaze wrote, "it required only a few minutes to carry out, even when using a file to cut the keys."

AT&T decided that the risk of abuse of the information was great, so it has taken the unusual step of posting an alert to law enforcement agencies nationwide. The alert describes the technique and the possible defenses against it, though the company warns that no simple solution exists.

The paper, which Mr. Blaze has submitted for publication in a computer security journal, has troubled security experts who have seen it. Marc Weber Tobias, a locks expert who works as a security consultant to law enforcement agencies, said he was rewriting his police guide to locks and lock-picking because of the paper. He said the technique could open doors worldwide for criminals and terrorists. "I view the problem as pretty serious," he said, adding that the technique was so simple, "an idiot could do it."

The technique is not news to locksmiths, said Lloyd Seliber, the head instructor of master-key classes for Schlage, a lock company that is part of Ingersoll-Rand. He said he even taught the technique, which he calls decoding, in his training program for locksmiths.

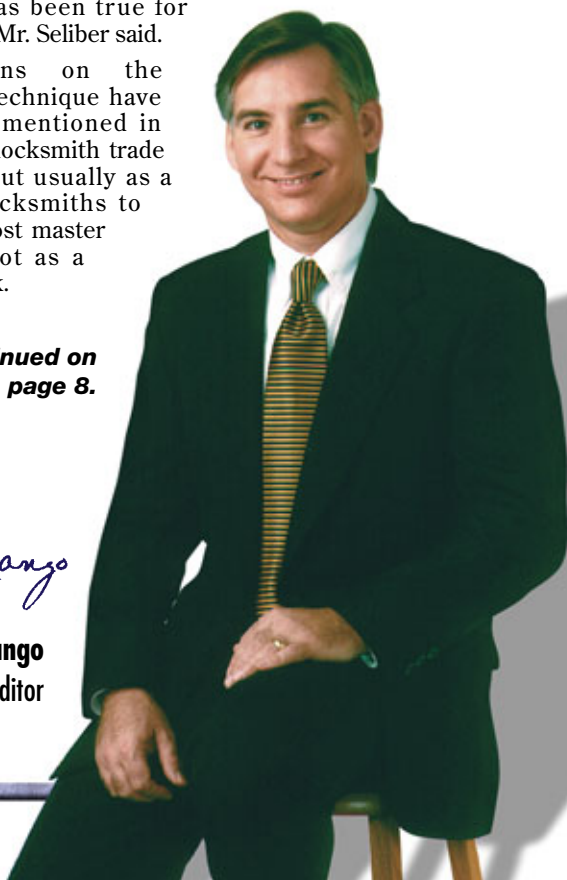
"This has been true for 150 years," Mr. Seliber said.

Variations on the decoding technique have also been mentioned in passing in locksmith trade journals, but usually as a way for locksmiths to replace a lost master key and not as a security risk.

**Continued on  
page 8.**



**Greg Mango**  
Editor





4 OUT OF 5 CRIMINALS AGREE:

# DO NOT BUY THIS LOCK



With its revolutionary drill-proof swivel plate, pull-proof cylinder and just plain thief-proof construction, it's little wonder criminals hate the new 2500. However, when you consider the convenient front-entry keyway and simple-to-service standard American Lock cylinder, it's just as easy to understand why locksmiths love it.



©2002 American Lock Company



To get your hands on the new standard in industrial security, call 800-323-4568 for an American Lock distributor near you.

Circle 222 on Rapid Reply



## Continued from page 6

When told that Mr. Seliber taught the technique to his students, Mr. Tobias said: "He may teach it, but it's new in the security industry. Security managers don't know about it."

In the paper, Mr. Blaze applies the principles of cryptanalysis, ordinarily used to break secret codes, to the analysis of mechanical lock designs. He describes a logical, deductive approach to learning the shape of a master key by building on clues provided by the key in hand - an approach that cryptanalysts call an oracle attack. The technique narrows the number of tries that would be necessary to discover a master-key configuration to only dozens of attempts, not the thousands of blind tries that would otherwise be necessary.

The research paper might seem an odd choice of topics for a computer scientist, but Mr. Blaze noted that in his role as a security researcher for AT&T Labs, he examined issues that went to the heart of business security wherever they arose, whether in the digital world or the world of steel and brass.

Since publishing Mr. Blaze's technique could lead to an increase in thefts and other crimes, it presented an ethical quandary for him and for AT&T Labs - the kind of quandary that must also be confronted whenever new security holes are discovered in computing.

"There's no way to warn the good guys without also alerting the bad guys," Mr. Blaze said. "If there were, then it would be much simpler - we would just tell the good guys."

Publishing a paper about vulnerable locks, however, presented greater challenges than a paper on computer flaws.

The Internet makes getting the word out to those who manage computer networks easy, and fixing a computer vulnerability is often as simple as downloading a software patch. Getting word out to the larger, more amorphous world of security officers and locksmiths is a more daunting task, and for the most part, locks must be changed mechanically, one by one.

But Mr. Blaze said the issue of whether to release information about a serious vulnerability almost inevitably came down to a decision in favor of publication.

"The real problem is there's no way of knowing whether the bad guys know about an attack," he said, so publication "puts the good guys and the bad guys on equal footing."

In this case, the information appears to have made its way already to the computer underground. The AT&T alert to law enforcement officials said that a prepublication version of the paper distributed privately by Mr. Blaze for review last fall had been leaked onto the Internet, though it has not been widely circulated.

"At this point we believe that it is no longer possible to keep the vulnerability secret and that more good than harm would now be done by warning the wider community," the company wrote.

There is evidence that others have chanced upon other versions of the technique over the years. Though it does not appear in resources like "The M.I.T. Guide to Lockpicking," a popular text available on the Internet, Mr. Blaze said, "several of the people I've described this to over the past few months brightened up and said they had come on part of this to make a master key to their college dorm."

Mr. Blaze acknowledged that he was only the first to publish a detailed look at the security flaw and the technique for exploiting it.

"I don't think I'm the first person to discover this attack, but I do think I'm the first person to work out all the details and write it down," he said. "Burglars are interested in committing burglary, not in publishing results or warning people."

Mr. Tobias, the author of "Locks, Safes and Security: An International Police Reference," said that the technique was most likely to be used by an insider - someone with ready access to a key and a lock. But it could also be used, he said, by an outsider who simply went into a building and borrowed the key to a restroom.

He said he had tested Mr. Blaze's technique the way that he tests many of the techniques described in his book: he gave instructions and materials to a 15-year-old in his South Dakota town to try out. The teenager successfully made a master key.

In the alert, AT&T warned, "Unfortunately, at this time there is no simple or completely effective countermeasure that prevents exploitation of this vulnerability, short of replacing a master-keyed system with a non-mastered one."

The letter added, "Residential facilities and safety-critical or high-value environments are strongly urged to consider whether the risks of master keying outweigh the convenience benefits in light of this new vulnerability."

Other defenses could make it harder to create master keys.

Mr. Blaze said that owners of master-key systems could move to the less popular master-ring system, which allows a master key to operate the tumblers in a way that is not related to the individual keys. But that system has problems of its own, security experts say.

Mr. Blaze suggested that creating a fake master key could also be made more difficult by using locks for which key blanks are difficult to get, though even those blanks can be bought in many hardware stores and through the Internet.

But few institutions want to spend the money for robust security, said Mr. Seliber of Schlage. His company recommends to architects and builders that they take steps like those recommended by Mr. Blaze, measures that make it more difficult to cut extra keys - like using systems that are protected by patents because their key blanks are somewhat harder to buy, Mr. Seliber said. Even though such measures would add only 1 to 2 percent to the cost of each door, builders were often told to take a cheaper route. He said that they were told, "We're not worried about ninjas rappelling in from the roof stuff - take it easy."

That is not news to Mr. Blaze, who said it was also a familiar refrain in the world of computer security. "As any computer security person knows," he said, "in a battle between convenience and security, convenience has a way of winning."

*Copyright © (2003) by The New York Times Co. Reprinted with permission.*

Next month you will learn Mr. Blaze's procedure for discovering the master key.





# NEW 2003 Car Opening Update is Here!

## Includes New Models

Cadillac CTS  
Honda Civic Si  
Honda Element  
Honda Pilot  
Hummer H2  
Infiniti FX45  
Infiniti G35  
Infiniti M45  
Isuzu Ascender  
Kia Sorento  
Lexus GX470  
Lincoln Aviator  
Mazda Mazda6  
Mercury Marauder  
Nissan 350Z  
Nissan Murano  
Pontiac Vibe  
Saturn Ion  
Subaru Baja  
Suzuki Aerio  
Toyota Corolla Matrix  
Volkswagen Beetle Conv.  
Volvo XC90

# PRO-LOK®

655 North Hariton St. Orange CA 92868 • Tel: 714/633-0681 • Fax: 714/633-0470

*Why Use Anything Else?*

# 2003

**Full Color!**

## CAR OPENING UPDATE



**New  
Format**

[www.pro-lok.com](http://www.pro-lok.com)

# MABDUP2003

### Available from the following

## PRO-SHIP

distributors

Accredited Lock	800 652-2835
Allied Lock	800 544-2102
Clark Security - SD	800 542-5625
Clark Security - DC	800 578-5625
E.L. Reinhardt	800 328-1311
Foley Belsaw	800 821-3452

H.E. Mitchell	800 626-5625
Herbert L. Flake	800 231-4105
IDN Armstrong - Atlanta	800 726-3332
IDN Armstrong - Miami	800 872-3332
IDN Hardware Sales	800 521-0955
Intermountain - Denver	800 323-8046
Intermountain - SLC	800 453-5386
Key Products	800 457-1019
Lockmasters	800 654-0637
Locksmith Store	847 364-5111

800 626-5625	McDonald Dash	800 238-7541
800 231-4105	McManus Lock Supply	704 333-9112
800 726-3332	R & H Wholesale	415 970-5000
800 872-3332	SDI Doyle Lock Supply	800 333-6953
800 521-0955	SDI Fried Brothers	800 523-2924
800 323-8046	SDI Hans Johnsen Co.	888 879-1500
800 453-5386	Stone & Berg	800 225-7405
800 457-1019	U.S. Lock	800 925-5000
800 654-0637	Wilco Supply	800 745-5450
847 364-5111	Worldwide Lock Supply	800 729-5444

800 238-7541
704 333-9112
415 970-5000
800 333-6953
800 523-2924
888 879-1500
800 225-7405
800 925-5000
800 745-5450
800 729-5444

# PRO-LOK®

655 N Hariton Street Orange CA 92868

(714) 633-0681 • Fax: (714) 633-0470

Circle 260 on Rapid Reply



For more info  
Visit [pro-lok.com](http://pro-lok.com)  
or call for a free catalog

# Letters

*The National Locksmith* is interested in your view. We do reserve the right to edit for clarity and length.

## Thanks for the QuickPull

I just wanted to thank Jake, Marc, Greg and A-1 Security for the A-1 QuickPull prize. I sent in my tip a couple of months ago and was thoroughly surprised to receive the prize. My tip was for using an air-wedge between the weather-stripping and the glass on a car door to acquire a better viewing window, easier access, and less chance of glass breakage. The day after I sent my tip I was going through my Lockmasters catalog and noticed that the pump wedge was made just for this purpose. I thought I was beaten to the punch. Again, I would like to thank everyone, and I say that the Quickpull works as stated, but unfortunately I broke the blade already. I tested it out on an old Weiser. I thought the brass cylinder would give before the hardened steel blade. Oh well, guess I'll have to order a replacement. Thanks again and keep up the hard work.

Paul C. Noll  
E-mail

## Master Codes Published

Would it be possible for *The National Locksmith* to publish the entire Master combination padlock codes? I do have some codes but they are not complete. I do hope that in the near future *The National Locksmith* magazine will publish the codes for all of the Master combination padlocks.

Arthur Perlman  
New York

**Editor's Note:** It would be nice for us all, however, it would not be possible to publish all the Master codes. That would require a library of encyclopedia's in and of itself.

## Prize Winner

I just received the Keedex Spin-out as a prize for my tip that you recently printed. Thank you.

Jim Troeller  
E-mail

## Where to Get It

Several distributors have both told me that they cannot identify what I am requesting. I wanted to purchase an Interchangeable core pick wrench. There was a locksmith on the East coast who made these years ago; and Jerry Finch also made these and had them available even after he left LAB.

Can you please tell me where I can purchase the turning wrench? The Institute of Locksmithing has a pattern for making them ourselves, but I am admittedly lazy in wanting to make them. Also, can you please help me with the key bitting for a Mosler File Cabinet with the indent code ML179?

Sincerely appreciate your help with the above two questions.

Howard Meythaler  
California



**Editors Note:** Unfortunately, I do not know where you can get the Gerry Finch IC core turning tool. As far as I know, it was only available directly through Gerry, who has since passed away. As for the Mosler file cabinet code, I'm not sure, but that may be a Chicago lock with a bitting of 51335.

## In Memory of Howard Lund

It is with great sadness that I pass on the news that E. Howard Lund of the Lund Equipment Co., Inc. died January 13, 2003 at the age of 96. Howard was an amazing gentleman who had a passion for his business and was active in it until his death. He was a World War II navy veteran who founded Lund Equipment in the late 1940's. He was proud of its longevity and enjoyed his relationships with many of you at trade shows. He especially appreciated your kindness in business dealings with his firm.

We at Craig Advertising echo those sentiments. Our relationship with Lund spans over 30 years. We wish all of you could have known him personally. Lund is a family business and we will continue to be so, with business as usual.

Bob Craig  
Craig Advertising **TNL**

**The National Locksmith**  
1533 Burgundy Parkway  
Streamwood, IL 60107  
Attn: Editor





**THE QUALITY OF OUR  
PRODUCTS MAKES  
SOME ACCESSORIES  
UNNECESSARY.**

AS A TRUSTED OEM PROVIDER, WE DELIVER  
UNSURPASSED PRODUCTS, TRAINING AND PROFITS FOR  
YOUR BUSINESS. WITH OUR AUTOMOTIVE LOCKS AND  
ACCESSORIES, NOTHING IS LEFT TO CHANCE.



**STRATTEC**



# SECURITY

DROP IN FOR TOOLS,  
TECHNOLOGY & EQUIPMENT

# Cafe

## Key Saver Keeps Spare Key With Valuables

Lots of people lock their keys inside their car—but few would lock their credit cards inside. That's the concept behind a new Key Saver



from Lucky Line. Designed to fit with credit cards, it makes a practical and secure way to carry a spare key. For commercial display, the Lucky Line Key Saver is available on an attractive rack mount card.

## Herculock Solid-Brass Padlocks "Weather Any Weather."

Fast delivery and all-climate endurance make Herculock solid brass padlocks affordable



answers for myriad utility, agricultural, petrochemical and industrial security applications.

Weather-ready solid-brass design eliminates possibility of corrosion damage due to salt spray, acid rain and other environmental pollution. The tumbler pin padlocks can be keyed alike, differently or matched to user's existing padlocks—and shipped in only two weeks—saving cost and eliminating multiple-key hassles.

The rugged padlocks are available in widths from 1-1/8 to 2-1/16", with shackle clearances from 7/8 to 8" and shackle diameters from 3/16 to 5/16". Rustproof lock shackles are made from brass or 300-series stainless. Pin-model padlocks are also available for newspaper racks, coin vending machines, meters, valves, etc.

All internal lock components are precision machined from brass or stainless for maximum corrosion resistance, then graphite-coated for long-term lubrication and smooth operation without lubricant freeze-up. Lock bodies also have a drip hole to prevent moisture entrapment, eliminating possibility of internal component freeze-up.

## Digital Deadbolt Lock

The MKM2500 digital deadbolt lock from MKM USA is a "smart" keypad unit, which stores up to 20 individual user codes of four to eight digits each and is capable of interfacing with other security systems. The unit fits doors from 1-3/8 inches thick to 2-1/4 inches thick and has a backset adjustable to 2-3/8 inches or 2-3/4 inches. Door handing is changeable with an internal switch to left, right, left reverse or right reverse.



Available in bright brass, the 10-button keypad is chrome plated to prevent wear on frequently used buttons. Powered by four "AA" batteries, which have about a one-year lifetime, the unit also contains a computer chip to save memory if batteries are low or dead. The keypad will time out after five successive invalid codes are entered and resets after one minute.

An emergency lock with an SC4 6-pin keyway, which can be keyed alike to other keys at the location, is accessible under the front panel to bypass the electronics if necessary.

## Marks USA "Great Barrier" Lockset For Heavy Traffic and High Abuse Doors

Marks USA, a leading manufacturer of ANSI grade 1 mortise locksets is now

introducing the "Great Barrier", a UL listed ADA compliant, Grade 1 mortise lockset combining full size, stainless steel, protective plates with track mounted levers and a concealed cylinder for maximum strength and security. The levers are solid stainless steel construction and are attached at both ends to resist excessive pull force.



This lockset is also available with several different exterior trim options to meet the requirements of heavy traffic and high abuse doors. The "Great Barrier" also features override guard lock protection, which protects the lock from unlimited torque.

## Animal Print Personal-Keys

The newest addition to Kaba Iloco Corp.'s Personal-keys line is animal prints. Consumers can choose from five different keys, including cow, snake, tiger,



leopard and zebra. The line fits most popular residential keys, including Kwikset, Titan, Schlage and Weiser locks.



## Dortronics Illuminated Push Button Exit Controls

Dortronics's Systems, Inc.'s 5215-SPB Series Push Buttons feature a large illuminated square "EXIT" button to provide high visibility in any lighting condition. The momentary action push button controls can also be custom lettered for specialized door control applications.



Dortronics' 5212-SPB Series Illuminated Push Button Exit Controls feature a stainless steel, single gang back plate that mounts to a standard single gang electrical box with two provided screws. In addition to the large illuminated push button, an optional LED can be supplied to indicate that the switch has been activated.

## Door Locking System

The Secure-Ur-Home door locking system has three locking positions to allow a homeowner to partially open the door to see who is on the other side. The system circumvents the common problem of deadbolts, which only send a bolt into the frame of the door or door chains, which can be easily ripped off the frame of the door.



What makes this product unique is that when the door is locked, not only is the doorframe bolted, but also a steel bar is sent into the floor. Plus, one of the locking positions enables the homeowner to bolt the door in a partially open position. If an intruder is on the other side, the homeowner can safely leave the door in the position and call for help. Available in either brass or brushed chrome, the non-handed units can be installed in four steps.

## Corbin Russwin's New Mortise Cam

Corbin Russwin has a new mortise cam designed for Corbin Russwin cylinders to retrofit Schlage® L9000 series locksets. This cam operates Schlage L9000 series locksets accepting a cloverleaf cam.



This addition to the Corbin Russwin mortise cam offerings increases options for aftermarket applications allowing Corbin Russwin cylinders to be specified. This mortise cam is available for all conventional, interchangeable core, security and Pyramid mortise cylinders and housings.


## Institutional Hinge Doctor

GKL Products' HA4 Institutional Hinge Doctor adjusts spring hinges and prison hinges. Sagging heavy steel prison doors can require one's entire body weight to get closed, especially when they sag or rub the doorframe.



Hotel doors with worn spring hinges are also difficult. Instead of replacing the doors, they can be adjusted with the Institutional Hinge Doctor, saving the cost of replacement.

# PowerPunch HES HES



**Power Punch 2505**

A brand new concept for access control power supplies. The 2505 Power Punch™ is the first power supply designed to improve the performance of electric strikes and other solenoid actuated devices.

designed to extend the life of electric strikes

How does it work? The Power Punch™ is designed to administer a short, isolated 38 Volt spike to enhance the initial unlocking operation of an electric strike. The power is then reduced to 75% of the electric strike's nominal voltage, which reduces heat build-up and extends the life of the solenoid.

We guarantee your satisfaction with a 3 year limited warranty and a doubled warranty on any HES electric strike when used in conjunction with the 2505 Power Punch™.

twice the original warranty

**Features:**

- Field selectable 12/24 VDC
- 3 individual output zones
  - high current zone
  - low current zone
  - battery charging circuit
- Self-resetting fuses
- Individually fused outputs

hes

**ASSA ABLOY**

An ASSA ABLOY Group company



# SECURITY Case

Just like the HA1 and HA3, the new Institutional HA4 is very easy to use. With the door closed, slide the HA4 Hinge Doctor onto the top hinge, open the door slowly until you feel the bind, and continue pulling the door about four to five inches past the binding point. Then, close the door and remove the Hinge Doctor to complete the repair.

## The Desktop Dispatcher Three New Standard Features



Want to reduce your time spent on the phone? Now you can e-mail your service calls anywhere you want. Pagers, cell phones, P.D.As, anything. This new feature uses your default e-mail client to send the call via your Internet connection. The program will automatically build E-mail with the facts of the call and even let you edit it before you send it.

Ever get lost? Now you can get unlimited free maps to anywhere in the U.S. Our new "Map It" feature uses your internet connection to log on to [www.mapquest.com](http://www.mapquest.com), automatically plugs in the address and submits it to [mapquest.com](http://mapquest.com) so the next screen you see is a map to your customer. You can even copy and paste the map and store it in that customer's file.

For those of you who have to be different, you can now change the background colors of The Desktop Dispatcher to add a more personal touch.

Best of all, the price is still the same. The Desktop Dispatcher starts at \$250.00

## Semiautomatic Key Duplicator

The Bianchi 104 semiautomatic key duplicator features a micro-switch activated cutter motor, which starts as the spring-loaded carriage is moved forward. The

carriage rides on roller bearings for a smooth, precise cut. The machine's 57-pound weight and European design combine to reduce vibration and noise. Accurate calibration comes from micrometric tracer adjustments for both spacing and depth. Four-way reversible jaws are spaced wide to accommodate longer and larger headed keys. The jaws securely clamp keys without the need for adaptors.



The one-piece jaw alignment system ensures a consistent parallel relationship between jaws, high-speed cutter and tracer. Jaws rest directly on the jaw pin, which minimizes tolerance. With a footprint of 17" long by 13" wide by 11" tall, the machine has a cast iron body, 1/4-hp, 1725-rpm motor and an 80mm high-speed steel cutter.

## In Templates

Who can install a vertical rod panic bar and outside trim in less than 1 hour? You can with the PRO-LOK IN-Series Templates. Lightning fast lock installations. These templates are easy to use, fast, precise and durable. We have assembled a group of installation templates that are all used with our Universal Clamp.



You will get exacting accuracy and finished work in the same time it takes others just to set up. Every time you use a PRO-LOK template, your installation will be faster, more precise and professional looking. Time is money. The PRO-LOK IN-Series templates may be the best investment you ever make. **IRL**



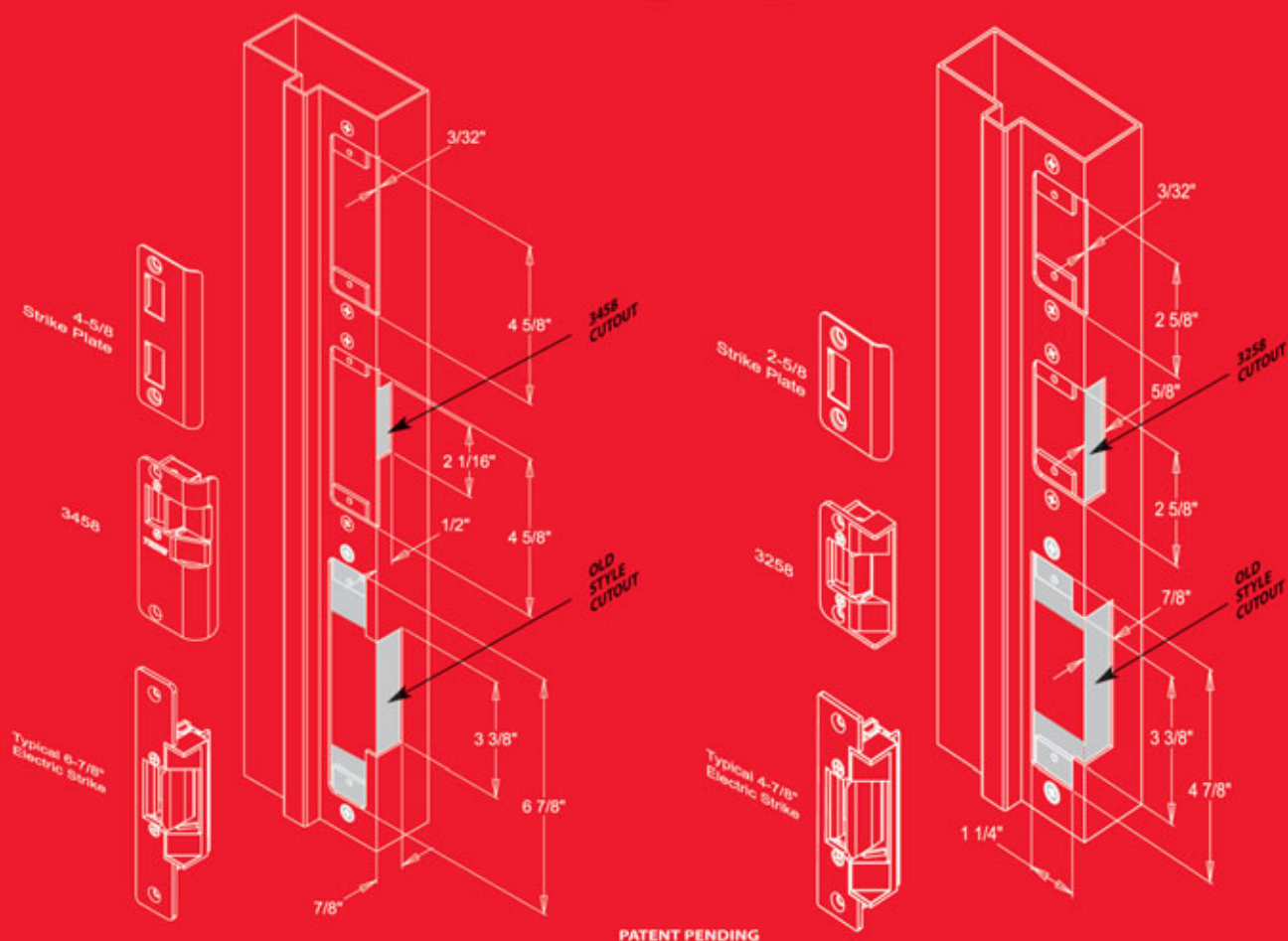
Introducing a full line of locks for any commercial application.

**DORMA.** The only name you need to know for the complete architectural hardware package.

DORMA Architectural Hardware  
800-523-8483 • [www.dorma-usa.com](http://www.dorma-usa.com)



# New Trine strikes reduce frame cutting up to 70%!



## 3458 and 3258 Axion strikes yield extraordinary savings.

The 3458 is designed to replace 4-5/8" high strike plates in aluminum frames. Its design requires only a 2-1/16" cut on the frame face and utilizes existing tab holes. Unlike other strikes, the cutout need not be expanded to accommodate a 6-7/8" strike which involves 70% more cutting and the drilling of new tab holes.

The 3258 has been created to replace 2-5/8" strike plates in aluminum frames.

Both strikes have only a 1" total backset and ratings of 1200 lbs. holding force and 500,000 life cycles.

**Each strike is available in an LC version, allowing 12-24 AC/DC operation plus the additional safeguard of surge and kickback protection.**



**TRINE™**  
ACCESS TECHNOLOGY

[www.trineonline.com](http://www.trineonline.com)

TRINE ACCESS TECHNOLOGY  
1440 FERRIS PLACE  
BRONX, NY 10461-3699  
TEL: 718-829-2332  
FAX: 718-829-6405

# Locks, Latches and Strikes



by  
Kevin  
Davison

**A**t some point, every locksmith is faced with having to provide some manner of electrical release for a customer's door. This can often be a daunting task for even the most experienced locksmith, because there are a great number of variables to consider when selecting an electric strike.

What sort of frame will the electric strike be installed in? Will the door be used for emergency egress? What sort of lockset will be used on the door? Overlooking even one of these factors can lead to costly service calls to correct the problem, or worse, the safety and security of your customers. A little bit of basic information from the start will allow a project like this to be completed correctly the first time.

Whenever possible, your first course of action should be to visually inspect the installation site. Obviously this will be difficult when quoting components for a job that is still in the design, or even new construction phase. In these cases there should always be drawings and hardware schedules available, or at the very least, a consultant, architect, or a contractor who can provide the required information. When inspecting the site, whether it is onsite or on paper, pay close attention to all aspects of the opening or openings. Most strike manufacturers can provide strikes for virtually any combination of hardware that is likely to be encountered. Knowing what that hardware is and how it interacts with its surroundings will make the installation easier for everyone.

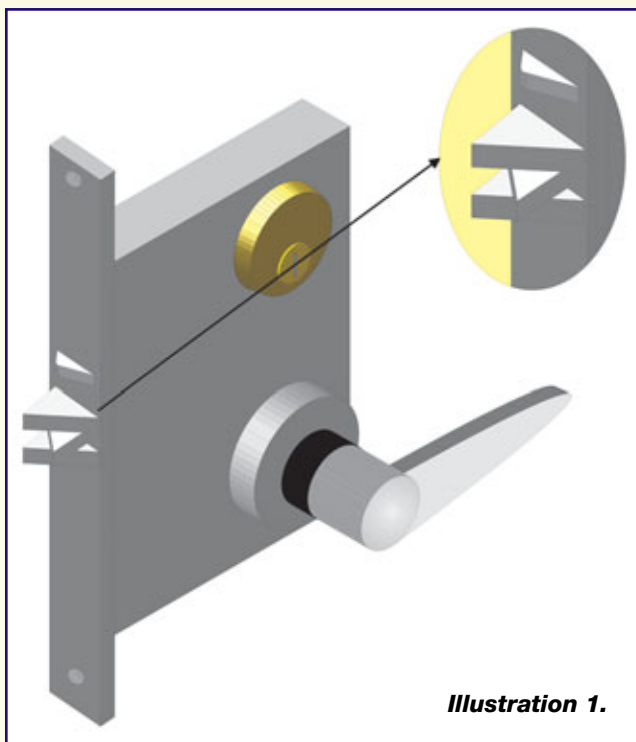
Doors are typically manufactured or assembled in a number of ways, each of which follows a standard. The positioning of the lockset and/or latch is commonly referred to as an "edge preparation". Knowing what the edge preparation is on the door will allow you to match and select the appropriate strike with the requirements of the installation.

No one knows lock/latch types better than locksmiths, and this could well be the single most important piece of information in choosing a strike.

## MORTISE LOCK

Mortise Locks are frequently found in commercial offices and institutions where a slightly higher level of security is desired. While mortise locks come in several different types of configurations, each has some common traits.

Generally there is a large triangular latch protruding from the face of the lockset. This may be split in the center with an opposing mechanism or may be solid. It also may incorporate a "deadlatch" either above or below the latch mechanism. The unit shown here incorporates a split mortise latch (also called a 3 piece and/or anti friction latch) with the deadlatch mechanism positioned slightly above the latch. (*See illustration 1.*) To select a strike, for this type of lock, the distance that the latch projects from the surface of the lockset will need to be measured. This



**Illustration 1.**



is called the “latch projection.” Door strikes are usually capable of accepting a latch projection anywhere from 1/2” to 3/4” deep. If the latch projects further, a call to the electric strike distributor or manufacturer for assistance will be required.

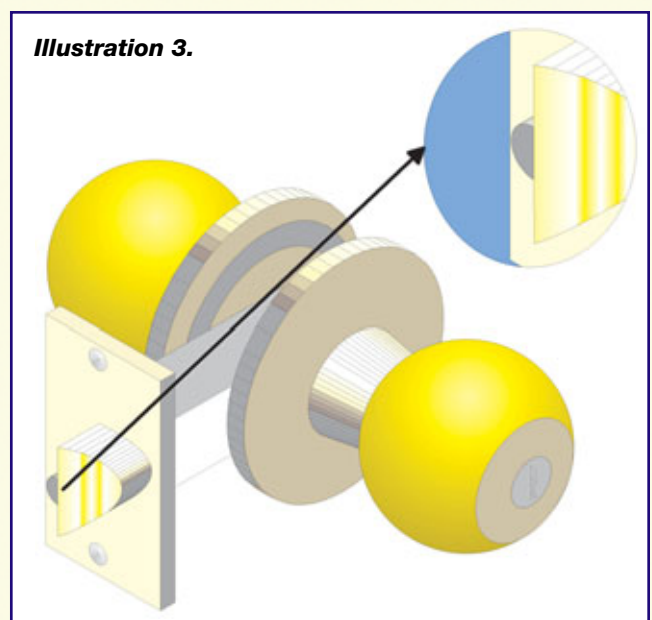
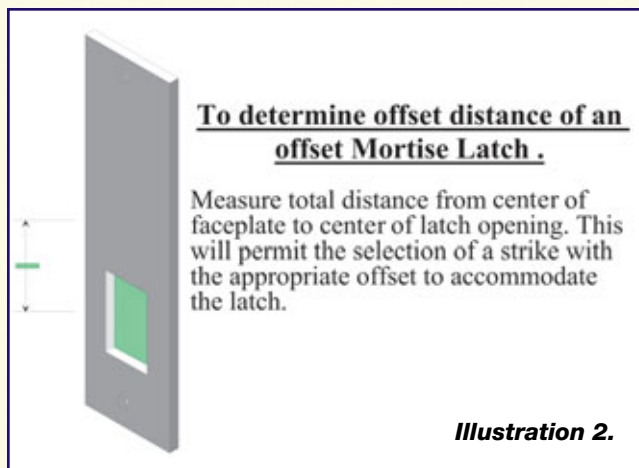
In addition to the latch projection, you will also need to measure the distance of the deadlatch from the latch. Any strike that is mated to a mortise lock will need to be capable of accommodating the deadlatch feature since it will be holding that mechanism down to prevent anyone from bypassing the lock with a simple tool such as a screwdriver or credit card. The strike should incorporate either a flat face that is an appropriate distance from the latch cavity, or a physical device designed to effectively hold the deadlatch in place.

Another possible concern with installing door strikes in conjunction with a mortise lock is the offset distance. Many mortise locks have the latch positioned slightly offset from the horizontal centerline of the latch faceplate. Because of the number of possible offset distances, this is another factor you should also carefully consider prior to making a strike selection. Door strikes that accommodate these offset locks are generally mounted in a standard position with the latch cavity offset from the horizontal centerline. This allows the strike to be installed in a standard edge preparation if one is already present in the installation.

Should worse come to worse and any of this information cannot be acquired, a good starting point is to photocopy the lock front cover plate or the ASA frame plate as shown here and fax it to the electric strike distributor or manufacturer. (See illustration 2.) If this is to scale or the specific dimensions are listed, the correct strike for the lockset in question can be determined quite easily.

### **CYLINDRICAL LOCK**

Cylindrical locks are most commonly found in residential applications, but can be used almost anywhere. These units are slightly less complicated than mortise locks, but not much easier to deal with when it comes to strike selection and installation. Many door strikes that are suitable for cylindrical locks have been designed to accommodate locks without a deadlatch pin. The deadlatch pin is designed to prevent easy bypassing of the latch, and as such, prevents the latch from being manipulated while the door is closed. This means that the strike will have to be installed in such a way so as to not allow the pin to fall inside the strikes’ latch cavity. (See illustration 3.)



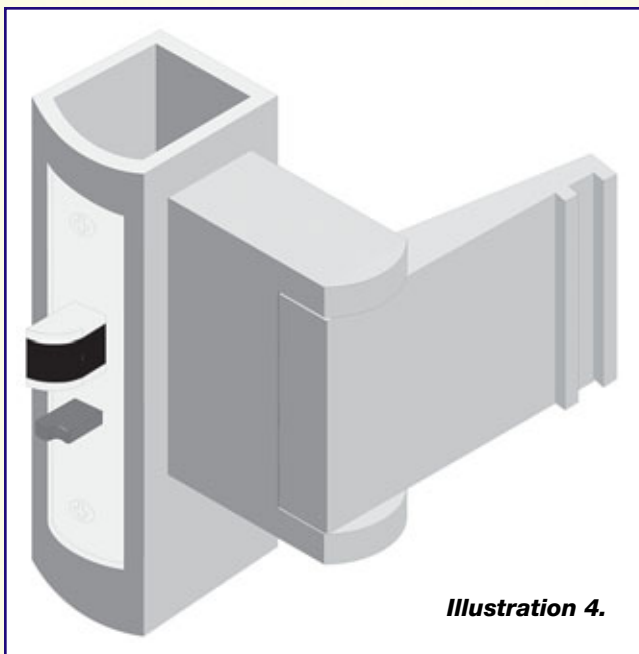
It is a simple matter to do this during installation, but not easy to correct later if it is overlooked. Cylindrical locks are generally a centerline lock and will work quite effectively with a strike that fits within an ANSI standard frame edge preparation. This eliminates the concerns of calculating the offset distance of the latch from the centerline of the latch faceplate as mentioned previously with offset mortise locks.

However, - and this isn't always so obvious - the thickness of the deadlatch pin must be accommodated in the door strike placement. A door strike of this type is usually installed in the frame on a vertical centerline. The position of the centerline is determined by marking the point on the frame where the center-most point of the door's edge will come to rest. Electric door strike manufacturers typically include a method for ensuring that this deadlatch pin doesn't fall into the latch cavity. I recommend that you closely follow the instructions that are included with the selected door strike. While this may seem like a minor matter, if you deal with it beforehand, you can prevent a great deal of hassle down the road.

### **NARROW STILE ALUMINUM LATCH**

This style of latch is becoming increasingly common in commercial settings and is generally found in hollow aluminum frames with glass paned doors. These latches can bear similarities to both cylindrical and mortise latches and may blend the best of both types. Usually this type of latch is released from the inside by a paddle or a lever. (See illustration 4.) As these types of actuators are designed for quick egress, they are installed higher on the door than other types of latches.

The height of the latch doesn't really impact the type of door strike that is selected. Once again, of greater concern is the latch type that is used with this latch set. As these are designed to allow easy egress and should relock again upon closure, any standard door strike should be suitable. Bear in mind the length of the latch, as the strike that is selected will need to be of an appropriate depth to seat the latch. If the door happens to currently lock with a swing-bolt it is usually a very simple task to replace the swing-bolt mechanism with one of these latches. This allows for a door strike to be installed where previously there was no other option.



**Illustration 4.**

devices, while the mortise style latches are found on mortise exit devices. This also will need to be considered during the strike selection process.

Another common point of confusion is determining the correct faceplate to use with a door strike once it has been cut into the frame. Most door strike manufacturers offer several faceplate varieties to accommodate different frame types. Shown below are the two most common variations in door strike faceplates.

### **ANSI FACEPLATE OPTIONS**

The faceplate on the left is generally used for hollow metal frames. Hollow metal frames are typically made of steel and are either supplied with a square opening in the frame or cut during a retrofit installation with a saw blade. The square corners on this faceplate allow for a clean installation.

The faceplate on the right is designed for installation in a hollow aluminum doorframe. An aluminum doorframe is often cut during installation with a rotary cutting tool such as a router. The rounded corners on this faceplate allow for the router to be turned smoothly

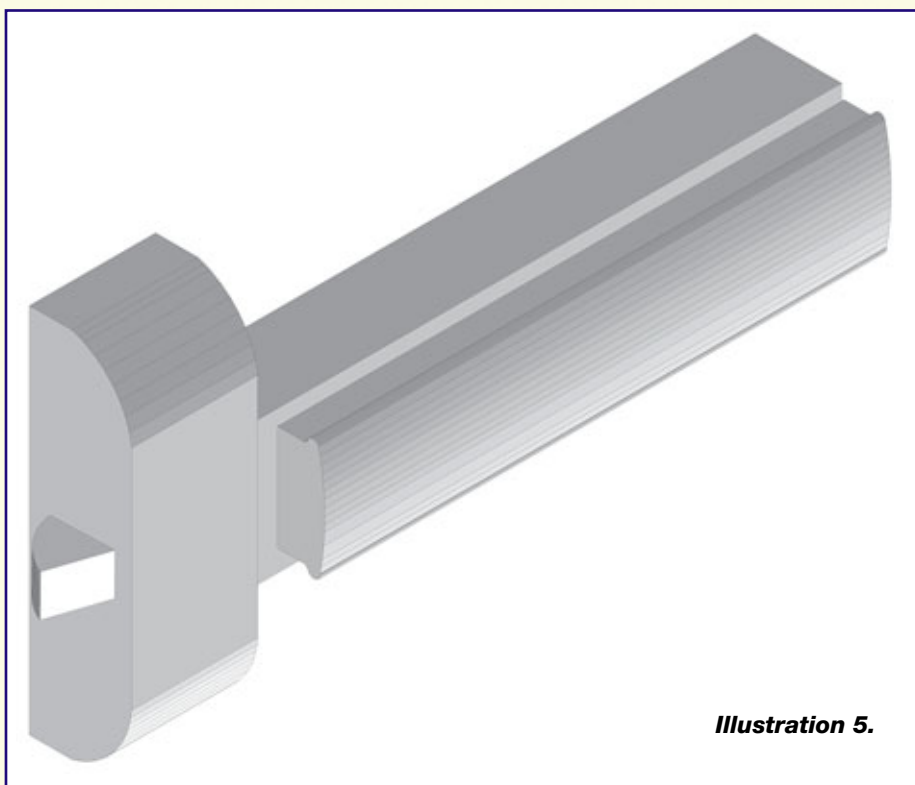
Also, pay close attention to the depth of the frame on an aluminum frame installation. Many aluminum frames are very shallow and may require a low profile door strike for the insert assembly to fit in the frame properly. In addition, many aluminum frames are assembled without a standard edge preparation of any kind. This will require the installer to cut the strike into the frame from scratch, which often proves to be even simpler than modifying a standard edge preparation.

### **PULLMAN LATCH**

A Pullman latch is generally found on a Panic Bar or Rim Exit Bar. These are surface mounted steel or aluminum bars that are installed on emergency exits. Any time a user has to open a door while their vision may be affected by smoke will have a device like this. A Panic Bar allows the door to be opened without “special knowledge” in an emergency.

This means that newcomers to the building will not have to be familiar with how to exit through this door in an emergency. This type of latch will also release in a “panic” situation where a large number of people are attempting to exit at the same time and prevents potential injuries resulting from someone being trapped between the escaping crowd and the door. *(See illustration 5.)*

A Pullman latch can only be used with a door strike that has been specifically designed for use with Pullman latches. This makes strike selection for these units a simple matter of ordering any Pullman latch capable door strike, although some panic hardware may incorporate a mortise style latch instead of a Pullman latch. Typically the Pullman latch is found on rim or “surface” mounted



**Illustration 5.**

during cutting. *(See illustration 6.)* Many manufacturers can supply installation jigs for use with a router when installing in aluminum frames. This is something to consider when doing a large multiple door installation, as it can be a great time saver. For instances where the door strike is to be installed in the dead leaf of a double-door opening, many manufacturers can supply a faceplate with a radius on the front edge. This makes for a much more attractive installation if the doorframe has a curve or radius to its edge.

You also need to select an appropriate faceplate for wood doorframes. Whether the faceplate has rounded corners or square is up to the installer, but whichever

**Continued on page 22**



# AutoSmart Advisor™

Easy as  
1,2,3...

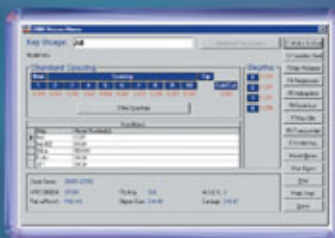
...the ultimate automotive  
software for locksmiths!

STEP  
1



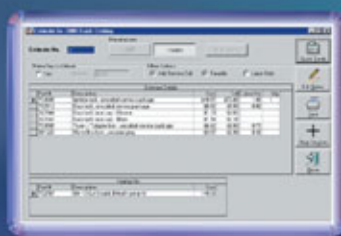
Choose the car

STEP  
2



See all data  
including spaces/  
depths, key blanks,  
parts, code locations  
and more.

STEP  
3



Click "Parts Dept"  
to select which  
parts you need  
for the job.

STEP  
4



Click "Quick  
Totals" for an  
on screen  
instant estimate.  
Or click "Print"  
to print a  
professional  
estimate.

AutoSmart Advisor™ does everything instantly and accurately. Now your computer is the best automotive tool you own!

**Installation and System requirements:** License is granted to run the software on any two computers you own. Installation on additional computers is available for \$50 each. Requires 486 or better PC with Windows 95 or better and CD drive. 75 megabytes of hard drive space. Installable from 17 diskettes which you can create from the CD. 16 megabytes of ram. Not network compatible.

Take an online tour at: [www.AutoSmartAdvisor.com](http://www.AutoSmartAdvisor.com)

OID 08/02

☐ **YES!** Send me the **AutoSmart Advisor™** for **\$395** (installable on two computers) plus \$8 for shipping and handling. Orders must be paid in U.S. funds.

☐ Send me \_\_\_\_\_ additional licenses for **\$50** each.

☐ Send me the 21 day full trial **AutoSmart Advisor™ Demo** for **\$10** (credited toward full version purchase)

Select payment Method:

- ☐ Check ☐ VISA ☐ MasterCard ☐ Discover  
☐ American Express ☐ Money Order

Order Total \_\_\_\_\_

Card Number \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature (required) \_\_\_\_\_

Name \_\_\_\_\_

Shop Name \_\_\_\_\_

Address (no P.O. boxes) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

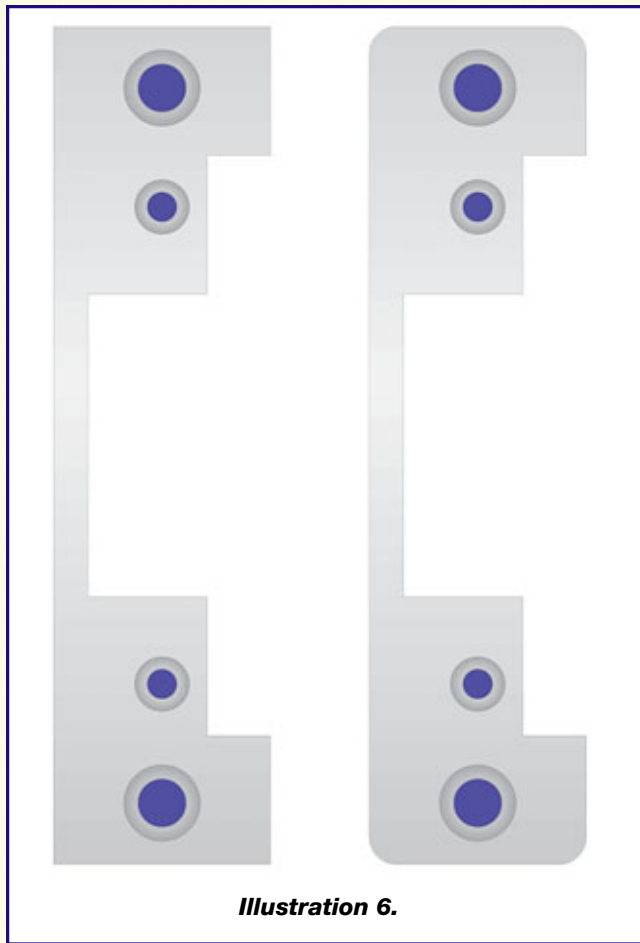
Phone \_\_\_\_\_

E-Mail (optional) \_\_\_\_\_

Copy or clip this coupon and send with payment to:

The National Locksmith • P.O. Box 77-97592 • Chicago, Illinois 60678-7592





**Illustration 6.**

plate is installed, the faceplate should be of sufficient length to provide some reinforcement to the doorframe. When a door strike is installed in a wood doorframe, a considerable amount of material must be removed to accommodate the strike insert and assembly. This greatly weakens the structural integrity of the frame. Choosing a longer faceplate with its mounting holes at the outer edges allows the mounting screws to gain a decent purchase into the wood, well away from the area that has been cut. This will replace some of the lost strength and greatly reduce the likelihood of a forced entry.

*For more information contact:*

*RCI US Headquarters  
2697 International PKWY  
Parkway 5, Suite 100  
Virginia Beach VA 23452  
US Phone: 800-899-5625*



*Canadian Headquarters  
210 Shearson Crescent  
Cambridge, ON  
Canada N1T 1J6  
Canadian Phone: 800-265-6630  
Web site: [www.rutherfordcontrols.com](http://www.rutherfordcontrols.com)*

Kevin Davison is Technical Services Coordinator for RCI. In addition to providing technical support for customers, Kevin conducts internal training for RCI staff and can be reached at: [Kevin.Davison@rutherfordcontrols.com](mailto:Kevin.Davison@rutherfordcontrols.com). Before coming to RCI, Kevin owned a security company that specialized in access control and home integration. **TNI**

# TAKE CHARGE

## OF YOUR BUSINESS!

**WITH WIRELESS CREDIT CARD SOLUTIONS.**

- **NO APPLICATION FEES**
- **NO SET-UP COSTS**
- **NO ACTIVATION FEES**

**AS LOW AS**  
**\$19.95**  
**/PER MONTH**  
CALL FOR DETAILS

**NorthAmerican<sup>TM</sup>**  
**BANCARD**

**RATES AS LOW AS 1.59%**  
**1-800-736-8101**



# HPC's Punch Machine™

Everything You Look for in a Code Punch Machine...and More!



#### **A Total Knockout**

Includes 3 Punches to Punch  
Most Automotive, Residential,  
& Commercial Cylinder Keys



#### **Completely Portable**

Pick It Up and Go  
Anywhere...Anytime



#### **Wireless**

No Electricity Needed!



#### **Burr-less Cuts**

No Brush Necessary!  
No De-Burring of Keys



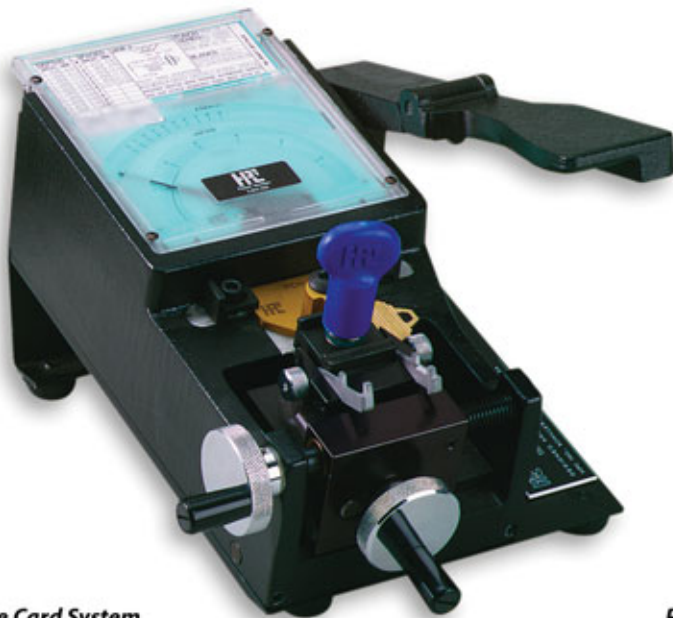
#### **The Most "Asked For" Software**

Over \$700 of software, FREE! Including  
CodeSource™ and the Interactive  
Depth and Spacing Guide



#### **World Renowned**

Used All Over the World



#### **Patented "Versatile" Code Card System**

Quickly Switch Between Manufacturers  
with the included 97 Code Cards  
and 4 Micrometer Cards



#### **Pinpoint Needle Accuracy**

Gives You Precise Control  
of Your Depths & Spaces



#### **Made in the USA**

Quality You Can Count On



#### **Based on the Patented 1200CMB**

Based on the Industry Standard  
1200CMB Blitz™ Code Machine



**HPC, Inc.**  
3999 N. 25th Ave.  
Schiller Park, IL 60176 USA  
Tel: 847.671.6280  
Fax: 847.671.6343  
[www.hpcworld.com](http://www.hpcworld.com)

# Electric Strikes and MAG Locks

## DCI

Door Controls International manufactures a complete line of access controls to complement the revolutionary RDM LOCK™ Electromagnetic Lock. This patented Grade 1, UL listed magnet is recommended where security is a priority. The 1400 Series Electromagnetic Lock can be supplied for both indoor and outdoor use, and was designed to reduce labor costs by providing a simple trouble-free installation.

DCI also offers other products to meet all your requirements for access control, and has designed a line of electrified products to address our world's safety and security concerns. Our focus is to address these concerns, while making it simple. Three different kits were comprised based on codes for access controlled systems; DES -1 Kit Delayed Egress, ACE -1 Kit Access Controlled Egress, and AC -1 Kit Access Controlled. Simply order

the appropriate kit for your desired application, and all the products will be included in one competitive price. Also, these kits can be custom built to fit any application. Our products are a perfect solution for achieving maximum security for either restricted areas or supervised entrances. Security made easy.

## Securitron Magnalock Corporation

Securitron Magnalock Corporation offers electromagnetic locks and electric strikes to fit any application. The Magnalock® Models 32, 62 and 82 provide 600, 1200 and 1800 lbs. of holding force respectively while operating on a scant 3.5 watts of power or less.

For applications requiring a hidden lock or a lock for a bi-directional door, Securitron's Shear Aligning Magnalock® and SAM2 Mini Shear are the first concealed mounted electromagnetic shear locks that don't require timers or sensors to assure position of the armature. The SAM's utilize conical button technology for proper strike plate positioning without early strike plate capture or binding on release.

The patented UnLatch® takes the place of traditional electric strikes by installing in an ANSI 4-7/8" cutout





without doorframe modification. The UnLatch® pushes the door latch into the lock body, releasing the door and maintaining continuous dead latch security. As an added benefit, it comes with a built-in monitor that signals door status, providing the ultimate in security monitoring. The UnLatch comes in two versions that will fit virtually any make or model of cylindrical or mortise-type lock.

All Securitron products are covered by the MagnaCare Lifetime Replacement warranty.

### **Dynalock Corp.**

Dynalock Corp. has developed the 3101B Delayed Egress magnetic lock, which compensates for sags and misalignments with a simple thumbwheel adjustment. The 3101B even protects against improper wiring with built-in protection for its microprocessor and circuitry. The microprocessor is field programmable and upgradeable. The 3101B is fully self-contained, so installation requires no external wiring except power.

The combination mechanical/opto-electrical switch is nearly foolproof, offering high security 1500 lb. holding force with user-programmable delay, fire alarm contact, bypass and status monitoring. The 3101B Delayed Egress magnetic lock meets all relevant life safety and security codes, including NFPA 101.



DynaLock Corp. manufactures UL listed electro-magnetic locks, including Passive Infrared and Delayed Egress Systems. Accessory products include UL listed power supplies, keypad systems, key switches, exit controls, timers, monitor stations and custom consoles. DynaLock high security products are manufactured in a modern, 18,000-square-foot facility by computerized machining centers and robotics to ensure superior quality, tight control and timely delivery. Each product is fully tested before shipment, with a 10-year warranty on all magnetic locks.

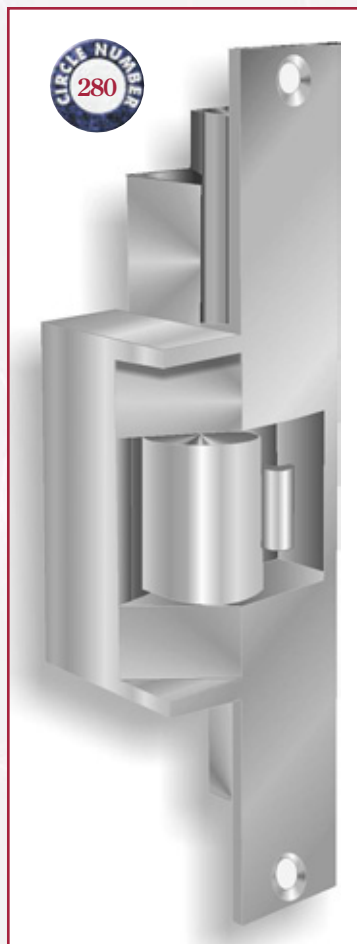
### **Folger Adam 940 Strike**

The Folger Adam 940 Series commercial grade electric strike adds a new universal strike to the product line. Installed with the appropriate faceplate, the series can be



used with mortise and cylindrical locks. Available with monitoring and multiple face plate options, the 940 series will open with up to 20 pounds of pressure on the keeper.

### **Folger Adam Full Range of Electric Strikes**



Folger Adam Electric Door Controls, the premier manufacturer of high quality electric strikes known for superior construction and durability, offers security industry professionals exceptional value.

Folger Adam's 310 series and 700 series heavy-duty electric strikes are ideal for controlling high volume traffic through doors where access control is desired. Both may be used with bored locks, mortise locks or mortise exit devices having up to a 3/4" throw latchbolt; are non-handed, reversible and changeable from Fail Safe to Fail Secure.

The 310 Series also can accept a 1" deadbolt and offers modifications for mounting on wood

frames, for pairs of doors and for pre-assembled and unit locks. The 700 series offers variations for hollow metal, aluminum and wood frames.

**Continued on page 28**





**When You Use High Tech Tools You're Using The Best!**  
**Just Ask Any Locksmith!**

High Tech Tools has been the leader in the Lockout Industry for most of its 17 Year history. Why? Simple; We make the best manuals, Strongest most innovative tools, with the most Powerful Guarantee, and all at the lowest Price. But Don't take our word for it! Ask almost any Locksmith why They use High Tech Tools™



## The Tools

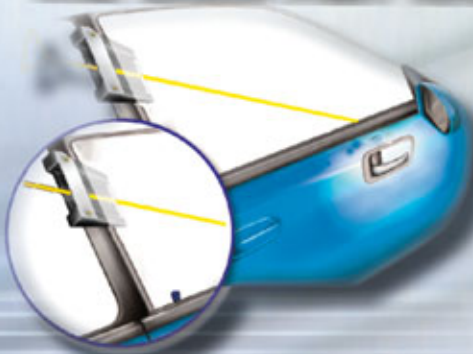
Our sets come complete with every tool you need. We use the Highest quality Steel and with handles and Flattened ends where needed! Our tools like our manuals are updated right up to the minute. All our complete sets Include a Wedgee wedge (a wedge so special it's patented.)

## The One Hand Jack System



The one hand Jack system is the most innovative Jack system available. We feel an emergency opening system like this is necessary, that's why we include it with our Master Locksmith Super sets!

## The Glass Man Tool



Cabled lock systems on vehicles with frame-less windows are everywhere. Fortunately with the Glass Man™ Tool, unlocks these vehicles is quickly and easy. (Included in complete sets)



1400 SW 1 Street • Miami, FL 33135  
305-649-7014 • Fax 305-541-0074

**1-800-323-8324**





**100%  
Money  
back  
Guarantee**

**Life Time  
Tool  
Replacement  
Guarantee\***

**Lost Tool  
Replacement  
Guarantee\***

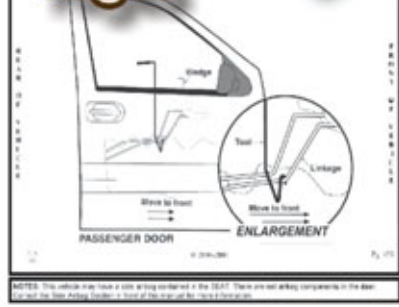
At High Tech, we know your tools are your livelihood, that's why we take that responsibility seriously. Our Guarantees are simple, straight forward and Powerful. 1) We give you your money back if you're unhappy for any

reason, we replace your tools for life if they're damaged\*, and we even replace them Free if they're Lost or stolen!\* In other words no matter what you're covered. \*Damaged tool and lost tool guarantee applies to metal tools in complete sets that are properly registered, some limitations may apply .see our web site or call for full details on the valuable warranty.

**Over  
1600 Pages**



**Sample  
Pages**



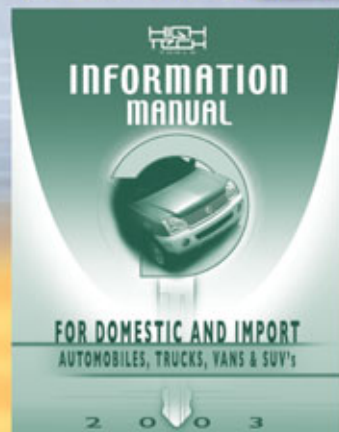
**Includes 2003 and early  
release 2004 Vehicles**

## The Manuals

Our Manuals are hands down, the best on the market. Our books are updated right up to the Present, with over 1600 Pages of Photos and Diagrams. Why both? Simple, the Photos let you see the inside of the door, tool placement, and everything you might run into. The Diagrams simplify the procedure and make it easy to understand. In fact you don't even need to read the instructions. By the way did we mention we have a Truck manual, which includes everything from a medium duty Mitsubishi Fuso, To an 18 wheeler Volvo.



**Manuals  
on CD Rom**



## The Quick Info Manual

The Quick Info Manual has all the information you need to cut a key, code series, space and depth, Keying kits, vats, pats, Keyway designation, Code machine settings, and much

Saturn	2003-2004	Codes:	H0001-3988	SN04
Depth & Space/ Framon	Mfg. - Key #	Keying Kits	1200CM	CF215
.315 1 1.033 .308	ILCO P1110	ignition	Framon	.092 Blk 3
.290 2 .942 .400	EZ B91, B96	A-49-101, SK6400	ITL	#519 -fit3 -ins1
.265 3 .850 .492	Tayl	door-trunk	Guide Keys	AGK621
.239 4 .757 .584	Strat	A-49-101, SK6400	Curtis	GM-6 GM-6A 15W-45
5 .665 .676	Bör		KWY	
6 .573 .768	Curt B-96			
7 .481 .860	Sil			
8 .389 .952	Jet B96-NP	Gaug tip		
9 .295 1.044	9wafer SB	domestic		
0 1	flatL			

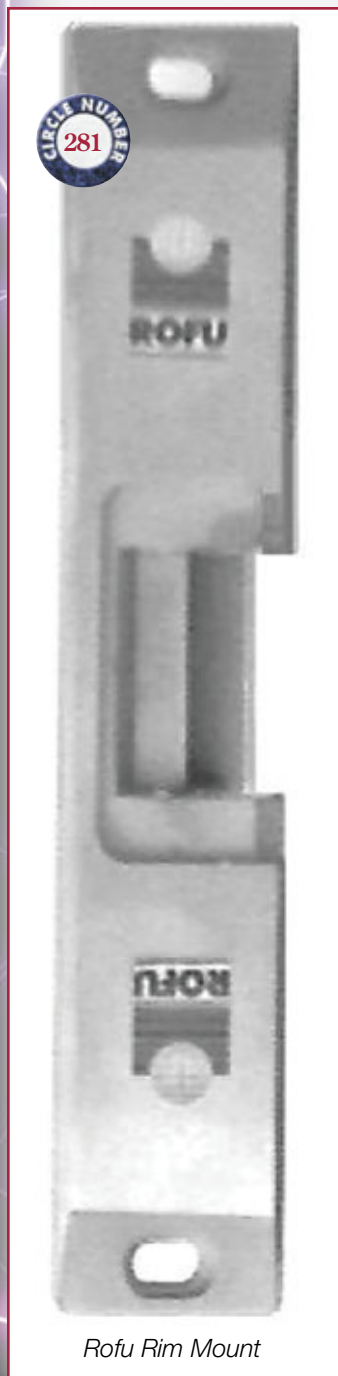




Recently introduced, Folger Adam's four new commercial-grade, mid-priced products and a new multi-feature universal strike enhance the current product line-up with a new range of offerings for a wider variety of applications.

The 100 Series, featuring the 110 and 110-75 strikes, are low profile strikes that work well with narrow door frames, and are easily changeable from fail safe to fail Secure. The mid-range 260 series offers an alternative price point for use with rim-type exit devices. The 280 Series is a low profile, heavy-duty strike, available with monitoring that is ideal for use in aluminum frames. The 940 Series adds a new universal strike to the Folger Adam product line. Installed with the appropriate face plate, this series can be used with mortise and cylindrical locks.

### **ROFU Rim Mount**



*Rofu Rim Mount*

The ROFU 1960 and 3960 Series strikes are rim mount units which feature a 9-7/16" x 1-3/4" stainless steel faceplate and stainless steel keeper, have a heavy-duty tamper resistant design. The 1960 Series is Fail Secure and the 3960 Series is Fail Safe. Tested to 500,000 cycles, the strikes are reversible, non-handed and have horizontal adjustment. Two faceplate spacers are supplied to allow full engagement of the locking latch, and integrated non-handed ramps allow for deadlocking latch bolt function.

### **New Trine Strikes Reduce Frame Cutting**

The 3458 are designed to replace 4-5/8" high strike plates in aluminum. Its design requires only a 2-1/16" cut on the frame face and utilizes existing tab holes. Unlike other strikes, the cutout need not be opened to accommodate a 6-7/8" strike, which involves 70% more cutting and the drilling of new tab holes. The 3258 was created to replace a 2-5/8" strike plate in aluminum and offers the same reduced cutting.



Both the 3458 and the 3258 have only a total 1" backset and ratings of 1200 lbs. holding force and 500,000 life cycles. They are each available in an LC version, allowing 12-24 AC/DC operation while providing surge and kickback protection.

### **Von Duprin Versatile Electric Strike**

Von Duprin introduces the 5100 electric strike for use with cylindrical and aluminum dead latch type locks.





The Von Duprin 5100 series is a medium-duty electric strike for commercial applications to control traffic flow through interior and exterior openings. The following features come standard with all Von Duprin 5100 electric strikes: 12/24 VDC dual-voltage solenoid, adjustable keeper, fail-safe/fail-secure adjustment, and three faceplate sizes.

All this combines to make the Von Duprin 5100 the single most versatile electric strike available, saving installers time and money. Mounting tabs, neoprene filler for retrofit needs, wire nuts and screw packs are all included. The 5100 series is ANSI/BHMA 156.5 Grade 1 compliant and has achieved the UL 1034 Burglary listing. \$140 List.

### **Adams Rite 7300 Compact Strikes**

Adams Rite Manufacturing Company has new 7300 Series Compact Strikes. These strikes are designed to fit jamb sections as shallow as 1-1/16" with a strike opening of 5/8" x 1-3/8" x 1/2". Their modular design offers complete flexibility as different strike can be utilized for different applications. This cost-effective feature enables the installer to make a variety of models using various faceplates, which saves time and reduces inventory.

The compact case, made of zinc-aluminum alloy, utilizes a stainless



## **Maximum Strength & Durability!**

# **SARGENT®**

## **T-Zone™**



**TOUGH:** Exceeds ANSI/BHMA Grade 1 requirements.

**ACCOMODATING:** Designed for all SARGENT keyways except Keso Removable Core.

**NO LEVER SAG:** Tested to 10 million cycles. Equivalent to eighteen years of use @ 1500 cycles per day.

**SMOOTH:** The quarter-turn lever rotation eliminates awkward wrist action.

**SECURE:** Able to withstand 2400 inch pounds of torque applied to the outside lever without gaining access.

**STYLISH:** The small rose design, available in 9 finishes, provides a stylish, contemporary look.

**EASY INSTALLATION:** fits in a standard 161 prep without the use of thru-bolts.



## **DUGMORE & DUNCAN™**

Established 1897

### **(888) DUGMORE**

1-888-384-6673

[www.dugmore.com](http://www.dugmore.com)

**Take a tour  
of the new  
AutoSmart  
Advisor™  
Software!**

**WWW.AUTOSMARTADVISOR.COM**

[www.AutoSmartAdvisor.com](http://www.AutoSmartAdvisor.com)

steel bolt retainer jaw and accepts any faceplate that is available for Adams Rite 7100 Series strikes. Many of the same finishes and options of the 7100 Series strikes are also available for the 7300 Series. These new compact strikes can be field converted from Fail-Secure to Fail-Safe.

The 7300 Series strikes are comprised of four different configurations depending on the application needed for the compact strike:

- 7300 Compact strike for mounting in aluminum jambs
- 7310 for wood or aluminum jambs
- 7330 for aluminum jambs
- 7340 for wood or hollow steel jambs

These electric strikes are 12 or 24 volt DC devices which allow remote electrical control of any door equipped with an Adams Rite Series 4500 or 4700 (or similar) deadlatch or "key-in-knob" sets. Remote electrical actuation unlocks the strike jaw, releasing the latchbolt and allowing the door to be opened without operation of the latch itself.

The Adams Rite 7300 Series Compact Strike is ideal if space is limited and access control is required from a remote location.

### **HES, Inc**

HES, Inc (Hanchett Entry Systems, Inc.) 1006F electric strike model, the fail safe version of the 1006 series electric strike, sets a new standard for fail safe electric strikes. Improving upon its 1003 series



predecessor, the 1006F provides field selectable dual voltage and an innovative new design that increases strength and longevity of the electric strike. The 1006 is factory tested to provide over 1,000,000 cycles of operation - twice the cycle life of the 1003 series and its strongest competitor.

The 1006 series accommodates most mortise and cylindrical locksets and installs easily into the standard ANSI 4-7/8" cutout. The 1006 series features all stainless steel construction, and offers 27 interchangeable optional faceplates, and a 5-year limited warranty, which can be doubled when the unit is operated in conjunction with the 2505 Power Punch power supply. **ITL**

## **A Cut Above...**



No matter what kind of van you have - Adrian Steel Locksmith Packages are a cut above the rest. More storage area. More work area. More isle space. It's almost like bringing your shop along wherever you go. For more information or a local distributor, call 1-800-677-2726, or visit us on the web at [www.adriansteel.com](http://www.adriansteel.com).



**ADRIAN STEEL**

**Commercial Van  
and Pickup Equipment**

## **Precision Cutter Sharpening**



**ALL BRANDS TYPES & STYLES  
CAN BE SHARPENED LIKE NEW**

- Börkey • Bravo • Rytan
  - Orion • Bollini • ILCO
  - HPC • Framon • ITL
  - Taurus • All Others
- We also sharpen carbide

**We Precision Grind All Cutters  
To Factory Specifications  
CALL US TODAY !**

**(989) 892-6870**



**55  
Years Of  
Service**

**\* We Sell  
New Cutters!**



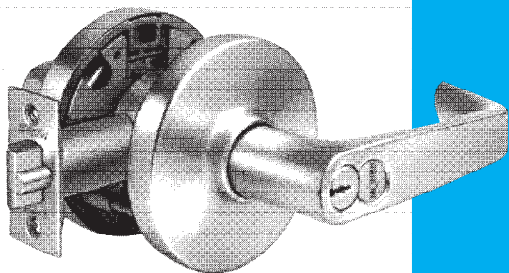
**GIL-RAY TOOLS**

**PO Box 801 • 1306 McGraw St.  
Bay City, MI 48708 USA**



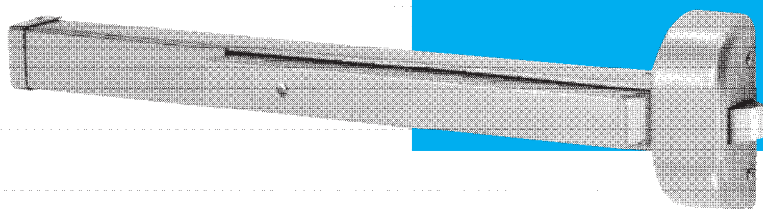
# We Interrupt This Magazine To Bring You The Following Important **ARROW**™ Program:

Thanks for tuning in! We at **Stone & Berg** bring you the best when it comes to delivering a great program. A program which features hardware manufactured by the **Arrow Lock Company**.



First on our program are the sturdy **L, M, Q & W Series Lever Locks**. These lever locks meet all tough industry standards for ADA, and they'll meet your tough standards as well.

Next we feature the **S1250 Series Exit Devices**. This product also meets tough ADA standards. When used with **Arrow's** new lever trim, they will provide a winning combination that will receive rave reviews time and time again.



Same Day  
Service

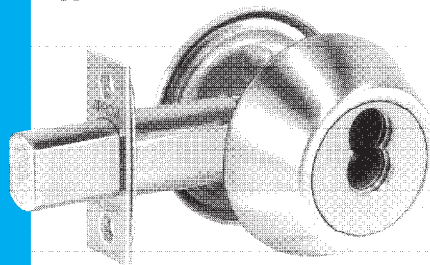
Competitive  
Pricing

**ARROW**™

Knowledgeable  
Sales Staff

And More!

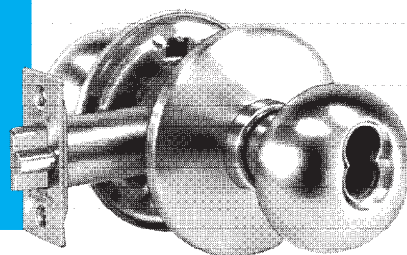
Also featured in our program are the dependable **E & D Series Deadbolts**. They are solid performers and are excellent choices for any heavy-duty application.



Rounding out the program are the **C, M & H Series Cylindrical Locks**. They too are solid performers and will provide quiet, dependable operation for years to come.

At **Stone & Berg**, we know what performance is all about. Not only should the products be exceptional, but your Distributor should be award winning too.

Give us a call. We'll show you how well we perform for you.



## Remember, These Products And Services Are Brought To You By...



### STONE & BERG

*Wholesale Locksmith Supply Company*

(800) 225-7405 • Fax: (800) 535-5625  
24hr. Toll-Free



# QUICK ENTRY UPDATE



by  
Steve Young

TECH TRAIN  
PRODUCTIONS

## 2003 Cadillac CTS

**M**any automotive analysts claim that during the last few decades, Cadillac lost sight of its core values and floundered by attempting to cater to the whims of the auto buying public. They chased after the latest "hot trend" and rushed cars into production that did not measure up to the Cadillac standard of excellence and quality. An example of this was the infamous Cadillac Cimarron, which one automotive writer branded as a "Cavalier in drag." Based on the same basic platform as the Cavalier, this car was so bad that you will not find a single mention of it in the history section on the Cadillac web site.

Many saw the introduction of the Cadillac Catera in 1997 as yet another attempt by Cadillac to cater to current trends without first doing its homework. The Catera was based on the Opel Omega, which was produced by the European division of GM. This vehicle was intended to be a sporty luxury vehicle designed to win back the buyers who were leaving Cadillac for such imports as Lexus and Infiniti. The Catera was so different from other Cadillac's that they even called it "The Caddy that Zigs." The advertising featured one of the birds in the Cadillac crest flying in the opposite direction from the others. Unfortunately, this also branded the Catera as an "odd duck" almost from the beginning, and the Catera was phased out in 2002.

The replacement for the Catera is the new Cadillac CTS. (*See photograph 1.*) With its radical new styling, Cadillac feels that they have finally come up with the "Lexus Fighter" that they have been after for years.

**Continued on page 34**

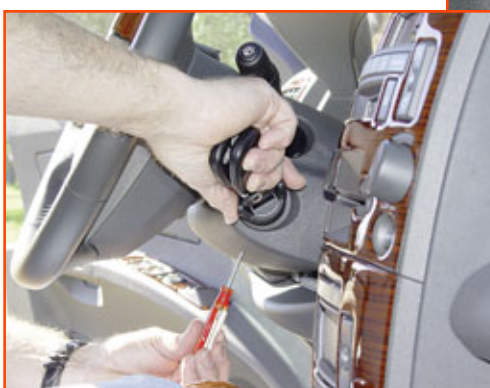
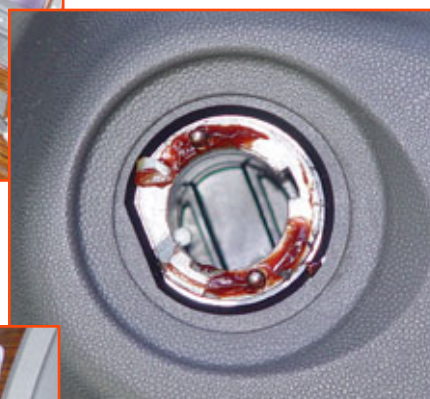


1. The 2003 Cadillac CTS.



2. The lock is mounted at the bottom of the column.

3. The ignition lock plug can be removed without removing the steering column shroud.



4. A small poke-hole is located at the bottom of the steering column.



# What's *NEW* at LOCKMASTERS?

*Steve Young & Tech-Train*

We're proud to announce the addition of Steve Young and Tech-Train to our organization. Now more than ever, we're bringing you the industry's best selection of products and an unrivaled source of automotive expertise.

The products and support you've come to trust from both Lockmasters and Tech-Train are now available at Lockmasters.

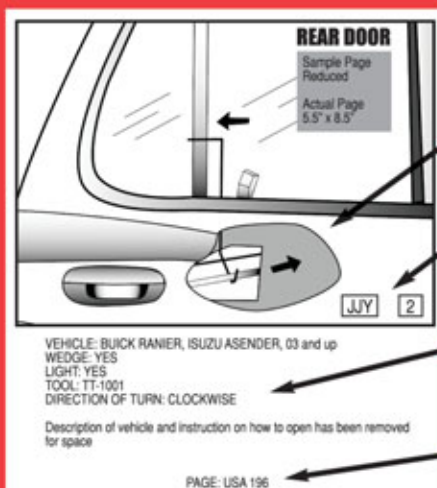
**WE'RE YOUR ONE-STOP SHOP FOR ALL YOUR  
AUTOMOTIVE LOCKSMITHING NEEDS.**

## *Introducing Steve Young's 2003* **Quick Entry Car Opening Manual**

The most accurate and easy to use car opening manual is back. Steve Young has personally disassembled hundreds of door panels to guarantee you that each opening method is the easiest and safest way to open the car. You can be sure that the methods shown in this manual will work.

If you know Steve Young, then you know why he is often referred to as "The World's Leading Authority On Car Opening". He has built a reputation for providing accurate and reliable car opening information. His attention to details in this manual continues the tradition.

We guarantee your complete satisfaction or your money back. Wouldn't you like to own the most complete and accurate car opening manual in the world?



### FEATURES OF THE MANUAL

Easy to understand "Cut-Away" style drawings show you inside of each door.

Exclusive Jiffy-Jak & Difficulty Icons tell you how easy each vehicle is to open and if the Jiffy-Jak can be used.

Quick Reference Heading for each car quickly gives you the important information you need to unlock the car.

Each vehicle is easy to find with our alphabetized index of over 500 different vehicles by make and model year.

### ORDER YOURS TODAY

**\$94<sup>95</sup>** 2003 EDITION QE2003

**\$22<sup>00</sup>** 2003 UPDATE 2003UP



**LOCKMASTERS<sup>®</sup>**  
INCORPORATED



TEL 800.654.0637

859.885.6041

FAX 859.885.7093

Cadillac is even supplying one of the best-known schools for race car drivers with specially outfitted CTS models for its students, even though the CTS uses the very same engine that powered the Catera.

Fortunately for locksmiths, the lock system of the Catera was not carried over to the CTS. Instead, the CTS features Ortech locks that are virtually identical to those used in the Buick LeSabre since the 2000 model year. There are only two locks on the entire car, one on the driver's side door and one on the steering column. The trunk is intended to be opened only with the remote or the inside trunk release.

The steering column features a lock system that is very similar to the "CSS" system found on many other GM vehicles. (See photograph 2.) The

major difference being that it is mounted upside down in comparison to other vehicles. The ignition lock plug can be easily removed from the column without removing the shroud from the steering column, as long as a key is available. (See photograph 3.) The lock must be turned almost to the "Start" position to depress the active retainer. The retainer can be accessed through a small poke-hole located on the bottom of the steering column shroud. (See photograph 4.)

The CTS also comes with a new transponder system as standard equipment. The new system is known as PassKey III Plus, or simply PK3+. It requires a new key blank and may require different programming than the traditional PK3 system, depending on how the vehicle is configured. (See photograph 5.) The

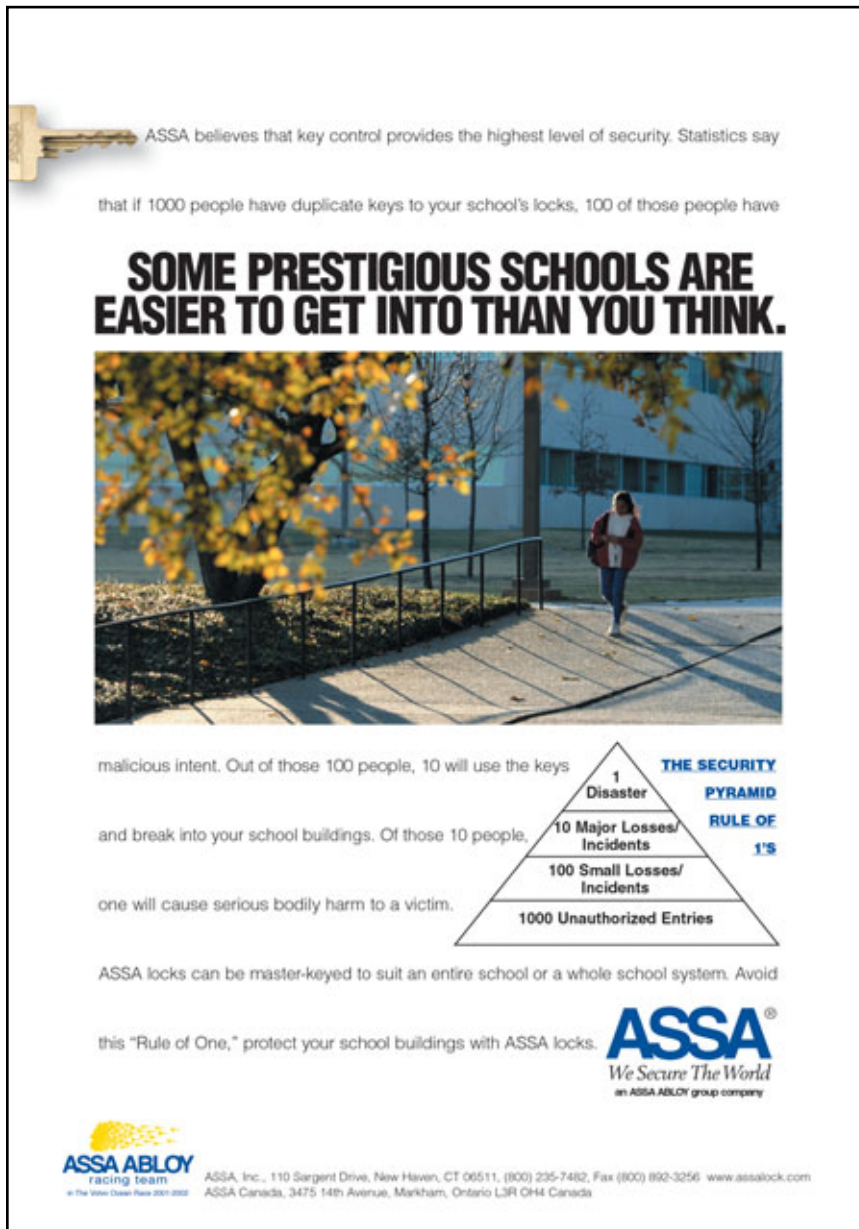
PK3+ keys are all stamped with PK3+ on the shank of the key for easy identification. At the time I am writing this, the key blanks for the PK3+ system are only available through the dealer, but I am sure that this will change in the near future. This system will also be used on the new 2004 Cadillac SRX sport-utility vehicle that will be introduced in the fall.

The PK3+ system uses two different programming procedures depending on whether or not the vehicle is intended for domestic use or for export. "Domestic" vehicles can be programmed with the same procedure that is used for the current PK3 system. Only one primary key is required to program duplicate keys. If the keys have been lost entirely, the vehicle can be re-programmed in the field without special equipment, but a 30-minute delay period (three 10-minute delays) is built into the system. The system will accept up to ten keys in any combination of primary or valet keys. The valet keys cannot be used for programming, but have the same mechanical cuts as the primary key.

Export vehicles require two existing primary keys in to program a duplicate key in much the same manner as the Ford PATS II system. If only one key is present, or if the keys have been lost, the GM Tech-II (Scan Tool) is required to program a duplicate or a new key.


Automotive transponder technology changes so fast that it's almost impossible to stay current unless you deal with it every day. One reason that there is so little information in print about these systems is that by the time a book, or even a magazine, gets into print it often already needs revision. For that reason, the most of the up to date information on these systems is usually found on the Internet where it can be revised quickly and easily as the systems change. If you would like more information on the PK3+ system or

Continued on page 36



ASSA believes that key control provides the highest level of security. Statistics say that if 1000 people have duplicate keys to your school's locks, 100 of those people have

**SOME PRESTIGIOUS SCHOOLS ARE EASIER TO GET INTO THAN YOU THINK.**



malicious intent. Out of those 100 people, 10 will use the keys and break into your school buildings. Of those 10 people, one will cause serious bodily harm to a victim.

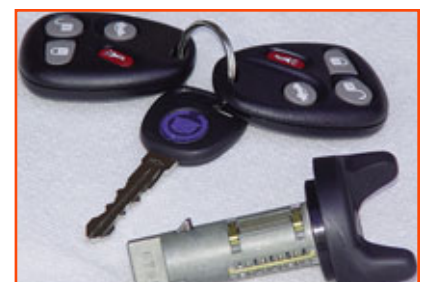
**THE SECURITY PYRAMID RULE OF 1'S**

- 1 Disaster
- 10 Major Losses/ Incidents
- 100 Small Losses/ Incidents
- 1000 Unauthorized Entries

ASSA locks can be master-keyed to suit an entire school or a whole school system. Avoid this "Rule of One," protect your school buildings with ASSA locks.

**ASSA**  
We Secure The World  
an ASSA ABLOY group company

**ASSA ABLOY**  
racing team  
ASSA, Inc., 110 Sargent Drive, New Haven, CT 06511, (800) 235-7482, Fax (800) 892-3256 www.assa-lock.com  
ASSA Canada, 3475 14th Avenue, Markham, Ontario L3R 0H4 Canada



5. The CTS uses an Ortech lock.



# PUREAuto WEEKENDS

## Are Back & Better Than Ever



### 2003 US Tour Dates

ATLANTA march 8-9  
 INDIANAPOLIS april 26-27  
 ORLANDO may 17-18  
 DENVER june 21-22  
 MINNEAPOLIS august 2-3  
 HARTFORD, CT september 6-7  
 NASHVILLE october 11-12



### Track Info

TRACK 1 beginning domestic automotive  
 TRACK 2 beginning transponders  
*New!* TRACK 3 keyless remotes  
*New!* TRACK 4 high security automotive  
*New!* TRACK 5 advanced gm column service  
*New!* TRACK 6 advanced transponders

### BONUS SAFE COURSES OFFERED\*

*New!* TRACK 7 electronic safe lock  
*New!* TRACK 8 mechanical safe lock

\*Atlanta, Indianapolis, Orlando & Nashville Only



### Pit Crew

TOM seroogy  
 TOM mazzone  
 RANDY mize  
 TOM lynch  
*Introducing!*  
 STEVE young  
 JEFF trepanier

## Introducing The Latest In Automotive Locksmith Tools



### LOCK DECODERS BMW, Mercedes & Audi/VW/Porsche

Decode and generate keys for high security automotive locks without removing the lock or disassembling the car. The High Security Lock Decoders from Lockmasters read locks on late model VW/Audi/Porsche, Mercedes 2-Track, BMW 4-Track & Lexus short key.

### ORDER YOURS TODAY

**\$299<sup>00</sup>** VWALD  
 AUDI/VW/PORSCHE  
**\$299<sup>00</sup>** BMW4LD BMW  
**\$399<sup>00</sup>** MER4LD MERCEDES



### LOCKMASTERS REMOTE KEY CHECK

This handy hand-held unit allows the technician to detect properly working IR and RF Key Fobs or Remote Control Handsets without disassembly. Great for fast, easy diagnostics of common Remote Key Fobs. Plus, drive more high margin battery sales.

### ORDER YOURS TODAY

**\$59<sup>99</sup>** 112155  
 2 AAA Batteries Included



### FORD NGS XL DIAGNOSTIC TOOL

Locksmiths are now guaranteed coverage on Ford model years 1984 through 2005. A second cable is now included, which allows the locksmith access to the Remote Keyless Fob and Key Pad functions. Includes 3 years of software updates.

### ORDER YOURS TODAY

**\$2,499<sup>00</sup>** NGSXL



**LOCKMASTERS<sup>®</sup>**  
 INCORPORATED



**PUREAuto™**

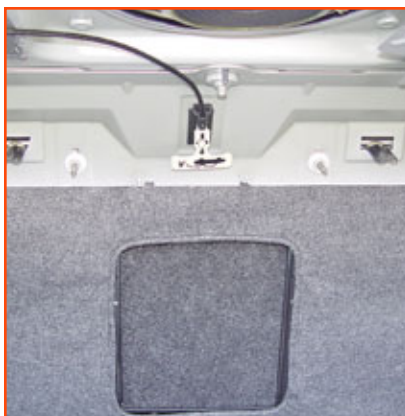
TEL 800.654.0637

859.885.6041

FAX 859.885.7093

www.techtrainproductions.com

www.lockmasters.com



**6.** There is a child-safety trunk release handle built into the trunk.



**7.** The pass-through door in the rear seat.

### Quick Reference Guide

<b>Vehicles:</b> 2003 Cadillac CTS	<b>Lock Manufacturer:</b> Ortech
<b>Direction of Turn (driver's side):</b> Clockwise	<b>Code Series:</b> 05000 - 06999 (Note letter prefix may not be stamped on lock)
<b>Lock System:</b> 10-Cut GM, Sidebar Ignition and Plate-Tumbler (wafer) Style Door Lock	<b>Key Blank:</b> Dealer only as of January 2003
<b>Security System:</b> PassKey III Plus (PK3+)	



**8.** Use a plastic card to protect the lower layer of the weather-stripping.



**9.** Carefully insert the tip of the tool into the door.



**10.** Pull forward and up to lift the lock button and unlock the door.

other transponder systems, one place to start is on my web site at [www.techtrainproductions.com/transponders.htm](http://www.techtrainproductions.com/transponders.htm). There you will find a listing of links to various sources of information, both on my site and on others.

Since the trunk can only be operated by the remote, or with the electronically activated inside trunk release, a mechanical override is installed for use if the battery is dead, or if there is a problem with the electrical system. There is a child-safety mechanical trunk release built into the system with the handle located inside the trunk beneath the rear package shelf. (See *photograph 6.*) This handle can be accessed from inside the car by opening a small pass-through door located behind the center armrest on the rear seat. (See *photograph 7.*) The "T" shaped handle is made of a highly reflective plastic that will glow in the dark after being exposed to light.

The new Cadillac CTS has a vertical linkage system on the front doors that can be attacked easily with the Tech-Train 1017 tool. Extra care should be taken with the

weather-stripping, because like many of the new vehicles, the CTS uses a multi-layer system that can be damaged if it is not treated properly. To protect the weather-stripping, I insert a small plastic card between the glass and the weather-stripping. (See *photograph 8.*) Next, I insert the wedge between the plastic card and the glass, pulling the card out after the tip of the wedge is below the level of the deepest lip of the weather-stripping. If you do not take steps to protect the lower layer of weather-stripping, it will roll under your wedge. This will restrict the movement of your tool and possibly damage the weather-stripping. I often use this technique as I insert the tool into the door to prevent the tool from rolling the weather-stripping as well, but it is not required on the CTS.

To unlock the CTS, begin by wedging open the base of the window on the front door just forward of the inside lock button. Carefully insert the hooked end of the TT-1017 tool that will allow you to grasp the vertical linkage rod from the outboard side. (See

*photograph 9.*) Once the hooked end of the tool is as deep in the door as it will go, carefully rotate the tool so that you can insert the shaft of the tool into the door. At this point, the hooked end of the tool will be horizontal inside of the door so that you can grasp and lift the vertical linkage rod.

The linkage can be located easily by feel while watching the inside lock button for movement. An inspection light can also be used to locate the linkage visually, but the linkage can be located easily by feel. Once the tool is hooked onto the linkage rod, pull up and forward on the tool to lift the vertical linkage and unlock the door. (See *photograph 10.*)

The door on the Cadillac CTS has a substantial frame around the window glass that allows the Jiffy-Jak Vehicle Entry System to be used on the CTS with relative ease as an alternate method. When using the Jiffy-Jak, the easiest way to unlock the door is to use the tool to activate the power door lock control, rather than by attempting to pull the inside lock button up with the tool. **TNL**

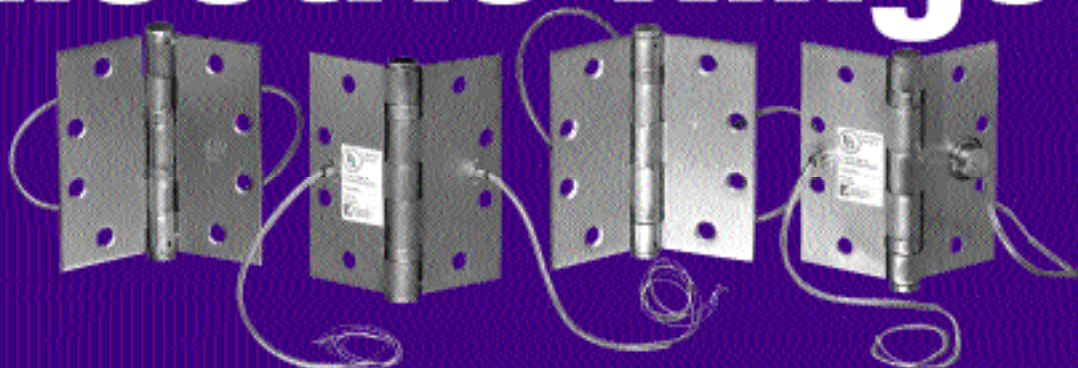


*We have*



ARCHITECTURAL  
CONTROL SYSTEMS,  
INCORPORATED

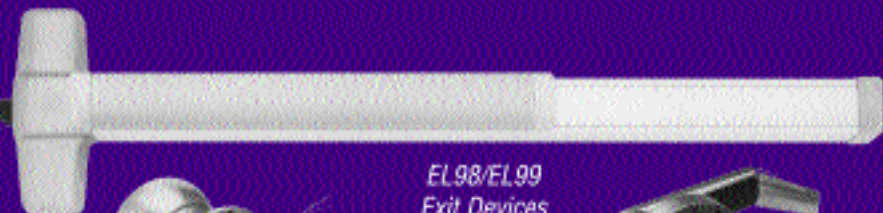
# Electric Hinges



*for all these applications.*



EL33/EL35  
Exit Devices



EL98/EL99  
Exit Devices



L Series Heavy Duty  
Mortise Locks



D Series Heavy Duty  
Cylindrical Locks



D Series Heavy Duty  
Lever Locks

*We have the **electrical products** you need,  
when **you** need them!*



Boyle & Chase, Incorporated

72 Sharp Street • Hingham, MA 02043

Telephone: 800-325-2530 • Fax: 800-205-3500

Web Site: [www.boyleandchase.com](http://www.boyleandchase.com) • E-mail: [sales@boyleandchase.com](mailto:sales@boyleandchase.com)

Circle 224 on Rapid Reply



TRIBUTE  
DX



**1.** The new Mazda Tribute is a brother to the Ford Escape. The Tribute is made by Ford and has the Ford type transponder system, which requires the diagnostic tool called "NGS". The NGS is needed to program keys when there is only 1 key left or all keys are missing. This SUV does not use the standard Ford 8-cut locks made by Strattec. It uses locks made by the German lock company called "Huf". The locks used are almost identical to the Ford Focus.



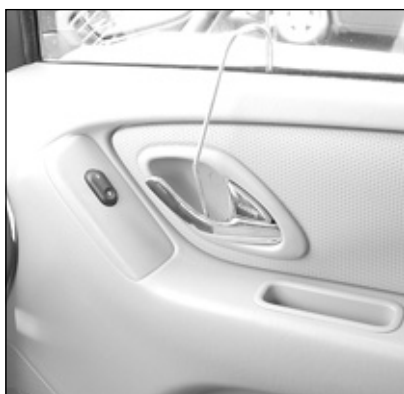
**2.** There are probably a few ways to open this vehicle. Since the lock linkage is heavily shielded we tried a "under the window" tool, sometimes called a "caddy killer".

# 2001 Tribute

2001  
Tribute  
Part 1



by  
Michael  
Hyde

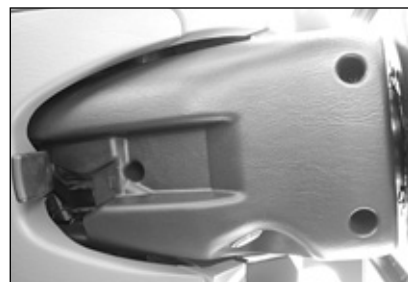


**3.** I was able to slide it under the glass on the second try and work the tool into position. The shape of the inside lock button is difficult to nudge with the tool; instead we used the tool to push out the door release lever which then unlocked the door. This technique is also used on the Contour.



## IGNITION LOCK

**4.** The ignition lock is mounted into the column utilizing an active retainer system. Active retainer is the type that you must have an operating key or ability to turn the lock cylinder to the "On" position.



**5.** There are 3 Phillips head screws on the bottom of the shroud that must be removed. One of the screws is hidden under the column-adjusting lever.



**6.** You only need to remove the bottom section of the plastic shroud. The access hole for the active retainer is easily visible from this point. Insert a working key, turn to the "On" position, and depress the retainer to remove the lock cylinder.

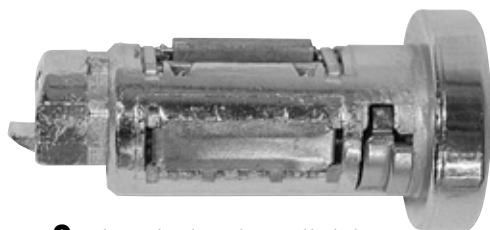


**7.**  
Here is the ignition lock cylinder removed from the vehicle. The metal active retainer is on the side.





**8.** On the back of the lock cylinder is a large Tru-Arc ring that must be removed.



**9.** The cylinder plug will slide right out. This is a side-bar lock.



**10.** The tumbler chambers are very similar to the 10-cut Ford ignitions. Here we have 7 tumbler chambers. What makes these ignitions locks difficult to recode is that there is not a whole of material to use when you go to re-stake the tumbler cover.



**11.** Here's a look at the tumblers, once again very similar to the Ford 10-cut ignition design.



**12.** A closer look at the tumblers reveal a depth number stamped on the leading edge.

## DOOR LOCK



**13.** The door lock cylinder is mounted to the latch assembly



**14.** The inside door panel has to be removed to get access to the lock cylinder.

### Bonding Information!!

**You are invited** to purchase a \$15,000 Bond Certificate and Bond Card along with your subscription. For a \$17.00 charge you will receive a Certificate and Card personalized with your name.

**Previously,** we could only Bond the individual subscribing to *The National Locksmith*. Now, however, we are able to Bond any of your employees as well as you, the actual subscriber. These additional personalized Bonds are available at \$25.00 each.

**If you already have a Bond,** you will receive notice to renew your bond. You will receive this notice in the mail several months before your Bond expires.

**New subscribers:** To receive a Bond, please follow the instructions below.

**To order bonds,** send a sheet with your name, address, city, state, zip and phone number (or that of the person to receive the bond), **include a check or money order** for the appropriate amount, and mail to: **The National Locksmith**  
P.O. Box 77-79592  
Chicago, IL 60678-7592.

OID-4/02

**Lightning Fast!**

**Solid Brass**



**Made in U.S.A.**

# ALMONT

## "Re-Key"

**• Padlocks •**

**Almont Lock Co.**

P.O. Box 568 • Almont, MI, 48003-0568 • (810) 798-8950

### Re-Key Tool Features...

Disassemble ALL parts and reassemble.  
No drilling...No Plugs to remove...No refinishing.  
Remove Key Plug only...Leave upper pins and springs alone to "Re-Key".  
Remove Key Plug and replace ALL pins to Master-Key.  
Remove and Replace Shackles.

### Key Ways Available...

No. 1	Yale
No. 2	Kwikset
No. 3	Schlage C
No. 30	Schlage C-K
No. 4	Dexter
No. 5	Segal 9
No. 5A	Arrow
No. 6	ILCO 1054K
No. 7	Sargent "S"
No. 71	Yale "GA"
No. 72	Yale "GB"
No. 8	Weiser
No. 9	Weslock
No. 10	Sargent "LA"



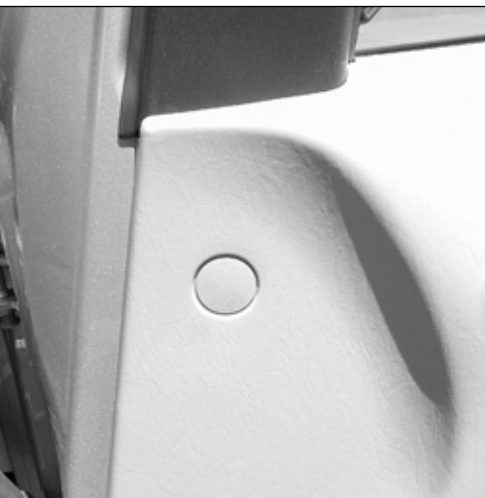
**15.** The first thing to remove is the panel screw hidden behind a plastic trim in the middle of the inside handle release cavity.



**18.** One last trim screw is on the very rear edge of the door panel that has to be removed.



**21.** Once you remove the screws from the backside you will notice on the outside of the door, that the plastic handle trim will start to move away from the door.



**16.** On the forward upper section of the door panel is another trim screw hidden behind a plastic trim piece that must be removed.



**19.** The panel is held on with the standard push-in style door panel fasteners. Gently pull outward on the panel to remove it. Gently pull back on the plastic weather barrier to gain access to the door cavity.



**22.** Catch the trim before it falls.



**17.** The door pull cavity has a panel screw that must also be removed.



**20.** On the inside of the door cavity you will find a well-shielded lock cylinder and linkage. The assembly is tougher looking than it actually is. First you will need to remove the three Torx screws that are located directly behind the handle on each side and one down near the latch. They are easy to spot.



**23.** On the inside of the door cavity there is a guard that can be moved out of the way by lifting up on it and pulling to the side. Shown in the photo is the top side where it snaps in.





**24.** The door lock assembly on this model is in my opinion a little goofy in design. You need the inside handle assembly to separate from its counterpart on the outside of the door. I did this by reaching the door cavity and pulling on the black plastic assembly to cause it to bow inward. This was enough for the assembly to move enough to disassembly it more.



**25.** The main reason the handle won't slide to take it off is this small white plastic plug that locks the handle forward on the door. By causing a bow on the inside assembly, this plastic plug will pop out enough to remove it.



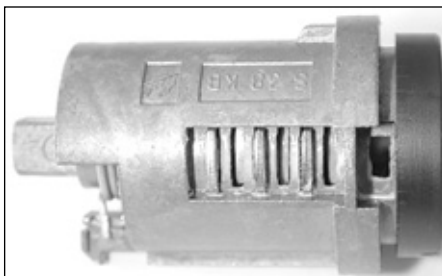
**26.** Here's a view on how the front section of the outside painted handle is snapped into the inside assembly.



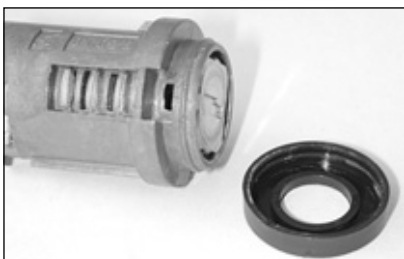
**27.** Now you can twist the inside assembly enough to pop out the door cylinder.



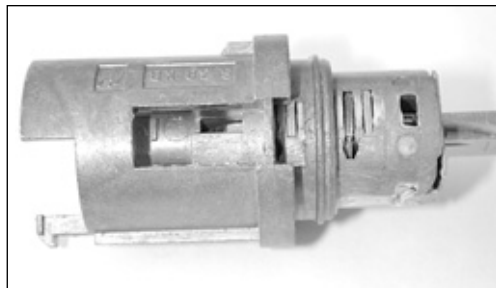
**28.** The cylinder is held in to the assembly by a plastic clip on the backside that you simply move to one side and slide the cylinder out.



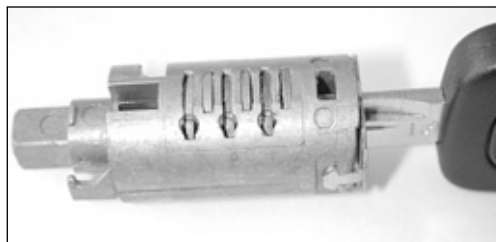
**29.** Here is the lock cylinder removed from the vehicle. There is a drain opening on the bottom.



**30.** Remove the black plastic cap on the front of the cylinder. The cylinder is warded and will not slide out until the cylinder plug is turned. This is easy to do without a key. First remove the spring on the back of the lock and slide a pick down the cavity opposite the drain hole and push up the tumblers to bring them to the shear line. While doing this use your finger to push down on the tumblers in the drain hole and rotate the plug.



**31.** If you have a working key, insert it into the lock cylinder plug and rotate to remove.



**32.** The door lock cylinder plug has 6 tumblers in it. They are positions 1 through 6. Next month we conclude covering the hatch lock, glove box lock and programming procedures.

**TRI**

## Mark Your Keys!

Key Shop Name \* Security Code  
Special Instructions



### CUSTOM STAMPS

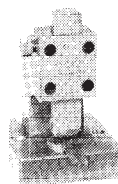
We can customize an Evers stamp with your trademark, code, special lettering, shop name etc. Submit design, lettering and size area for quote.



### ORDER TODAY

**DIRECT FROM MANUFACTURER**  
**STOCK IMPRINTS:** "Master," "Do Not Duplicate," "Do Not Copy," "U.S. Property," "Property of U.S. Gov't," and "Unlawful to Duplicate"

## Key Stamp Holder



for 3/8" x  
3/4" Shank

Quick and simple to use for faster, easier marking

NO. E6H

**Security Code Stamps**  
500 different symbols

### FREE BROCHURES

**HENRY A. EVERS CORP.**  
72 N. Oxford St., Providence RI 02905

**TOLL FREE: 1-800-55-EVERS**

Phone: 401-781-4767 Fax: 401-781-9581

# ISC WEST

LAS VEGAS, NEVADA

## PRODUCT SHOWCASE

### SECO-LARM'S Entry Alert System

SECO-LARM U.S.A, Inc. is now shipping the E-931-S22RRC Entry Alert System with a 22-foot (7m) range. The E-931-S22RRC is the perfect device for monitoring an entrance or for use as an entrance indicator. It makes a "ding-dong" or siren sound if the transmitter/receiver's beam is interrupted. Additionally, the E-931-S22RRC offers adjustable volume control for the speaker/electronic chime, as well as an adjustable sounding time of 3 to 30 seconds (when in siren mode).

The E-931-S22RRC comes complete with a single-beam transmitter/receiver, reflector, speaker/electronic chime, 9VDC adapter, mounting brackets and hardware. An optional counter can also be incorporated into the unit. All components plug into each other for quick, easy installations.

The E-931-S22RRC is just one of SECO-LARM's wide selection of alarms and accessories for the security and electronics industries.

### IR Security & Safety 650 Series Heavy Duty Keyswitch

IR Security & Safety's Electronic Access Control Division (EACD) has introduced a new "smart" Locknetics heavy-duty keyswitch series, which allows installers to configure both clockwise and counterclockwise key turn direction as well as momentary or maintained action in seconds. The new 650 Series features an innovation magnetic spring design. When the magnets are configured to

attract, the switch provides a maintained action. When the magnets are configured to repel, the switch provides a momentary action.

Instead of having to buy a variety of options, the installer can field configure the basic keyswitch for a variety of application requirements. The stocking distributor no longer has to inventory a large amount of end-item SKU's to achieve product breadth. Additionally, 650 series keyswitch prices have been reduced 25 to 35 percent from prior models. Both single gang and narrow stiles are available with a choice of heavy-duty plate, weather resistant cover, green/red LED lights, anti-tamper switch and Schlage Everest cylinder. In addition to the standard satin chrome finish, users can also select bright chrome, satin bronze; oil rubbed bronze, bright brass, white powder coat and black powder coat.

### Greenwich Security Magnetic Sensors

A new line of magnetically operated proximity sensors that are offered in press-fit and screw-on surface types for use in doors and windows is being introduced by Greenwich Electronics, Inc of East Greenwich, Rhode Island.

Greenwich Security Magnetic Sensors are magnetically operated reed proximity switches, offered in press-fit and screw-on types with crush-resistant plastic cases. Featuring a variety of sizes and contact ratings, they are hermetically sealed and use rhodium over gold reeds and high-grade magnets.



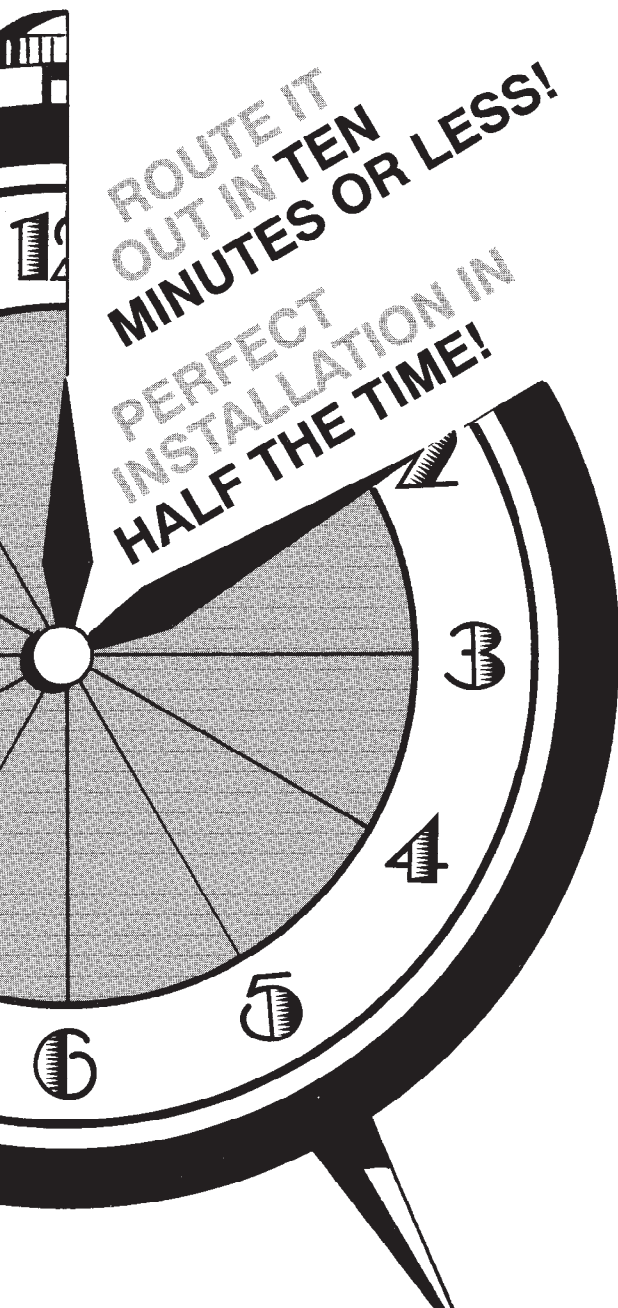
**Continued on page 44**



# FOR ALUMINUM DOORS & JAMBS

# ***ELECTRIC STRIKE***

# ***INSTALLATION TEMPLATES***



AVAILABLE FROM YOUR  
LOCKSMITH DISTRIBUTOR!

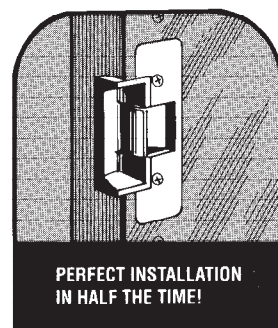
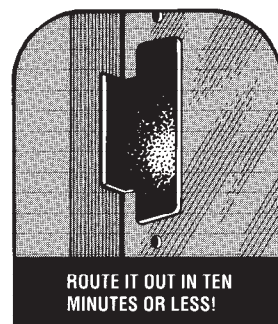
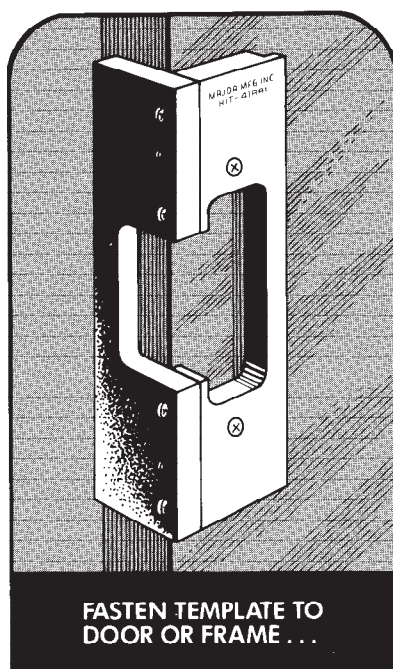
**Major**  
MANUFACTURING, INC.

1825 VIA BURTON, ANAHEIM, CA 92806  
714/772-5202 • FAX 714/772-2302

[www.majormfg.com](http://www.majormfg.com)

Copyright 1997 • Major Mfg., Inc.

- Fast, accurate installation with the use of a router.
- Use scribe lines on template to determine proper alignment.
- Fasten template to door or frame with the two self-drilling screws (supplied) and route out opening.
- Remove template from door or frame.
- The two screw mounting holes are drilled out and counter sunk to become mounting holes for strike mounting tabs.
- Template works on frame of a single offset hung door or inactive leaf of double door.
- Requires a router with 3/8" outside diameter guide and 1/4" router bit.



- ☐ HIT-41AR1 for ADAMS RITE 7100 series
- ☐ HIT-41AR2 for ADAMS RITE 7130 series
- ☐ HIT-41AR4 for ADAMS RITE 7100 series Center Hung
- ☐ HIT-41HS1 for HES 5000 X 502AL
- ☐ HIT-41HS2 for HES 5000 X 503
- ☐ HIT-41HS3 for HES 7001 series
- ☐ HIT-41HS4 for HES 5000 X 502AL Center Hung
- ☐ HIT-41RC6 for RUTHERFORD 4104,5104,7104
- ☐ HIT-41RC8 for RUTHERFORD 4107,5107,7107
- ☐ HIT-41FA1 for FOLGER ADAM 201 series
- ☐ HIT-41FA2 for FOLGER ADAM 205 series

Circle 248 on Rapid Reply



Suitable for use on interior and exterior doors (standard and overhead), windows, cabinets, and tool cribs, Greenwich Security Magnetic Sensors are UL listed and include cc/Loop and SPDT versions with various operating gaps from 1/2" to 3". Different wire and termination options are available.

Greenwich Security Magnetic Sensors are priced depending upon version, termination requirements, and quantity. Samples, literature, and price quotations are available upon request.

#### CyberKey™ Validator

CyberKey™ Validator provides key control in applications with high personnel turnover. Users receive their access privileges each day at the exterior of a facility by inserting their key into the Validator station. With the ability to authorize keys on an as-needed basis, Validator eliminates problems associated with lost keys and unauthorized entry. The system eliminates key duplication and wrongful entry by someone using a key outside of an assigned work schedule.



#### Schlage Modular Computer-Managed Locks

IR Security & Safety's Electronic Access Control Division (EACD) has introduced a new concept in



Computer Managed (CM) modular mortise locking systems. With the new modular battery-powered CM locking systems, multiple credentials can be easily employed within the facility, including codes, iButtons, magnetic stripe cards and HID proximity credentials. Architects and their clients can mix and match the best type of front-end solution for each opening without adding complexity to the system. Whatever the credential being used, LockLink or LockLink Express software allows for easy addition or deletion of users, access points and access privileges.

With a laptop or PDA, the administrator can download programming information from LockLink or LockLink Express to the opening within seconds. LockLink and LockLink Express provide easy addition and deletion of users, determine which users can have access to specific doors at specific times throughout the day, and download recorded audit events of who has been through the door and when. The system operator can easily control both users and access points based on time of day, day of week, credential needed and/or period of time. Reports show audit trails retrieved, access privileges granted and time functions established by either the user or door.

#### Locknetics Computer-Managed Locks

California State University-San Bernardino (CSUSB) is economically securing multiple types of facilities while enhancing student, faculty and staff accessibility to them with a "Locknetics On Board" computer managed (CM) standalone access



control system programmed with LockLink software.

With the standalone CM system, CSUSB is able to provide many of the benefits of a traditional hardwired access control system without the associated costs. Each user is assigned an access credential with appropriate time dependent access privileges. Audit trails on the last 1000 events are recorded at each opening and can easily be downloaded via a laptop or PDA. This capability allows CSUSB to keep close track of who went into any specific facility or room and at what time.

"We prefer the standalone CM locks because we want to avoid the high cost of retrofitting associated with traditional hardwired access control," explains Juan Macias, CSUSB lead locksmith. "With CM products and LockLink software, we can program who has access, when they should have access and remove access when we need to at once. We can provide audit trails and are asked to do so several times a month if something is misplaced or stolen. We've even turned such information over to the authorities."

#### STI Reflective Beam Smoke Detector Guard

Safety Technology International Inc. of Waterford, Michigan and Birmingham, England is announcing the newest member of its fast growing family of coated wire protective covers. It's the STI Reflective Beam Smoke Detector Guard (STI-9626). The cover is designed to protect Fireray 50/100R units and similar devices from misalignment and other potential

**Continued on page 46**





problems. STI says installation is easy with all anchors and screws provided. The guard can be mounted either vertically or horizontally.

The STI-9626 is constructed of 9-gauge, welded steel wire coated with a tough, corrosion resistant polyester shell. As all STI protective covers, it is backed by a lifetime guarantee against breakage in normal use.

#### Secura Key Standalone Access Control

Secura Key announces the Radio Key® RK-65K, the most powerful and versatile standalone proximity access control unit ever. Measuring only 1.5" by 3.5", the RK-65K is tiny enough to be installed right on a doorframe or mullion, yet it can handle up to 65,000 cardholders.



Every RK-65K has a solid-state relay, a remote-open input, a bi-color LED and a buzzer. Where extra physical security is required you may add the SecuRelay™ intelligent relay module. The RK-65K also has a Wiegand output, allowing it to be connected to multi-door access control systems by Secura Key and most other manufacturers. When connected to an access control panel, the on-board relay may be used for degraded-mode operation or to provide additional functionality to selected cards.

In the standalone mode, RK-65K is programmed with a simple deck of programming cards. No external programmers or computers are ever required.

#### Adams Rite New Idea in Maglocks

Unlike normal maglocks, which get larger in size and weight as the strength rating increases, the ingenious design of the MS Maglock utilizes a pair of spring loaded hardened steel mandibles that instantly clamp the armature in the event of a forced entry. With these mechanical jaws engaged, the MS Maglock's holding force is an incredible 4,000 pounds, which is about 1,000 times its own weight.

This design allows the entire assembly to be much smaller and lighter, while outperforming virtually all-traditional maglocks on the market today. For comparison purposes, the MS Maglock is smaller than a 600 lb. rated traditional maglock and about half the size and weight of a 1,500 lb. rated traditional maglock. Rated at 4,000 lbs. The



Adams Rite MS Maglock has strength to burn. Overkill? Not in today's security-conscience business and institutional environments.

With its small size and weight, the MS Maglock is technician friendly and extremely easy to install on in-swinging or out-swinging doors of all kinds. The MS Maglock can be integrated into most access control systems such as card readers, keypads, key switches or push buttons. Operation is failsafe at all times, but the unit can be equipped with a battery back-up power supply. Additional options include a door position switch to detect attempts to open and a tamper alert sensor to verify positive engagement of armature and magnet.

#### Von Duprin Electronic Access Control Trim

Computer-managed and manually programmable versions of electronic access control trim for Von Duprin 98/99 series exit devices are now available from IR Security & Safety. They provide intelligent access control for doors that require an exit device for egress.

The computer managed Von Duprin CM993 is a battery-powered electronic stand-alone access control trim. The Von Duprin trim features Locknetics On Board® technology that allows it to be programmed and managed with the same LockLink™ or LockLink™ Express access control management software as



other IR access control products. It manages up to 1,000 users and provides an audit trail for the most recent 1,000 events. Its SmarTime feature can accommodate up to 16 time zones, 16 time schedules and 32 holidays, as well as first person in, time expiration and time activation. Credentials available in a variety of combinations include iButtons, key codes, HID proximity cards and magnetic stripe cards. It will work with most existing mag card and HID proximity credentials, which means it is not necessary to convert to a new card system.

**Aiphone GF Four Wire  
Multi-Unit Audio/Video System**

Aiphone Corporation enhances the GF audio entry security system with video door entry and a digital directory. A visitor who is looking for a resident can call them by pressing the first letters of the person's name on the digital name-scrolling module. The built-in video camera allows the resident to see and communicate with who is at their lobby entrance and unlock the door to allow them access into the building. This is an ideal access control system, which adds security and convenience to the tenants in an apartment or office building. The GF is flexible, allowing you to mix and match modules to create the exact system configuration and features for your needs. The revolutionary 4-wire bud wiring design reduces the overall cost making it perfect for new or retrofit applications.



The entrance station includes video, intercom, 16-character LCD display and a lighted digital keypad. In addition the LCD has the capability for a scrolling message up to 160 characters long. The system also supports 5 languages. An optional rain hood or surface mount box with hood is also available.


**TNI**



## **Your I.C. Core Source**

**Quality USCAN Locks:**  
*Lever locks*

**Padlocks:**  
**Master Lock Pro Series,**  
**AMERICAN LOCK**

**I.C. Core Cylinders:**  
*Vertex  patented system,*  
**KSP Best type cores**

**Pins:**  
**LAB** *Original quality pins*

*For product application and  
availability, please contact your  
local SDI distributor.*

**Hans Johnsen Company**  
Dallas, TX  
Toll Free: 1-888-879-1500  
FAX: 1-800-967-4250

**K-D-L Hardware Supply, Inc.**  
Seattle, WA  
Phone: (206) 682-7383  
Toll Free: 1-800-926-7716  
FAX: (206) 624-9305

**Jo-Van Distributors**  
Scarborough, Ontario  
Phone: (416) 752-7210  
Toll Free: 1-888-752-7210  
FAX: (416) 752-3845

**Doyle Security Products**  
Minneapolis, MN  
Phone: (612) 521-6226  
Toll Free: 1-800-33-DOYLE  
FAX: (612) 521-0166

**Robert Skeels and Co.**  
Compton, CA  
Phone: (310) 639-7240  
Toll Free: 1-800-734-4539  
FAX: (310) 639-7569

**Fried Brothers, Inc.**  
Philadelphia, PA  
Phone: (215) 627-3205  
Toll Free: 1-800-523-2924  
FAX: (215) 592-1255

**SECURITY DISTRIBUTORS, INC., Dallas, TX**



# Marks CLASSROOM INTRUDER Lock



by  
**Sal Dulcamaro,**  
CML

**C**lassroom security became a highly discussed topic a few years ago following the tragedy at Columbine High School in Colorado. Security measures of all sorts have been suggested and devised to improve safety at schools. The classroom function lock is set up to always open from the inside. It can only be locked or unlocked from the outside with a key. The scenario of an armed aggressor in a school hallway makes it awkward to try and lock the door, because there is no locking button on the inside handle that will be able to accomplish that task. Someone must leave the room and enter the hallway to access the outside handle and lock it with a key. That situation puts at least one person at risk and leads to the greater likelihood that the door will remain unlocked. The unlocked door, however, puts everyone in the room at risk.

Now an entry function lock (with a locking button on the inside handle) could be used to replace the classroom function lock, and the described scenario would have a possible solution.



**1. The Classroom Intruder function lockset.**

Unfortunately that creates a new problem. One reason for the use of classroom function locks is to prevent students from locking out the teacher. Having a locking button on the inside handle makes it open season for the

pranksters in the class. The best solution to resolve the two conflicting needs would be a new lock function that deters both potential problems. Marks USA, offers one possible answer with the "Classroom Intruder" function lock. It operates like the more traditional classroom function lock, but allows



**2. A lock mount with the two needed extra holes already drilled.**

locking and unlocking of the outside handle by key from the inside. It resolves the problem of the aggressor in the hallway by allowing the teacher to lock the door from the inside rather than risk confrontation in the hallway. Key only operation prevents students from locking out the teacher.

*Photograph 1*, shows the Classroom Intruder function lockset as it looks out of the box. The lockset comes partially pre-assembled, so you will need to slightly disassemble the lock first, before you can install it on a door. Like most of the newer locks introduced post-ADA, it is available only with a lever handle

rather than a knob. This lock function is made in two different lever handle styles. The style shown is from the "American Design Series" with sharper corners on the bends of the handle. The other is the "Crescent Design Series" which has a lever handle with more of a curve on the bends. If upgrading a classroom function knob lock, you will probably only have the single crossbore hole and the edgebore hole. Most (though not all) lever handle locksets require two additional small crossbore holes for installation. *Photograph 2*, shows a lock mount with the two needed extra holes already drilled. If you are replacing an existing lever handle lock, there is a good chance that those holes have already been drilled. Otherwise, the extra holes will have to be added. It can be done free hand with the paper template included with the lock, or you can use one of many jigs designed for that purpose.

## THE LOCK ASSEMBLY

Since the lock comes partially pre-assembled, you will first need to remove a few parts from the lock before it can be assembled on the door. The inside handle view of the lock can be seen in *photograph 3*. It may throw you for a loop



**3. The inside handle view.**

for a second because it is a keyed handle. We typically see that handle only on the outside half of the lock. One clue that it is the inside rather than outside handle is that the rose assembly with its two holes for the mounting screws is usually on the inside half of the lock. You don't usually fasten screws (to hold a lock on the door) from the outside face of the door.



**4. Rotate the key one-quarter turn.**



One of the parts that must come off is the inside handle. Normally you would just take a poke tool and push in a spring-loaded retainer to pull off the handle. Since it is a keyed handle, it must be removed like the keyed handle typical on the outside. A current operating key is required to do it. After fully inserting the operating key, rotate the key one-quarter turn in either direction, as is being done in *photograph 4*. This moves the tailpiece out of the path of the spring-loaded retainer that retains the handle. After you



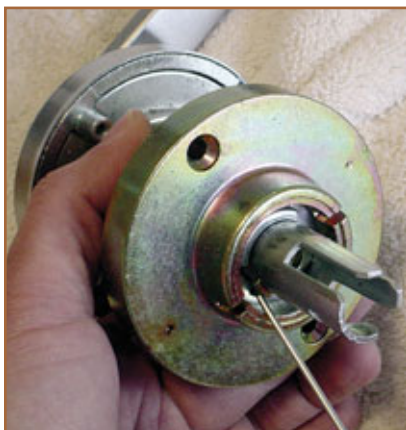
**5. Push in the retainer until the handle releases.**

turn the key, position the included poke tool at the retainer hole or slot, as shown in *photograph 5*. Push in the retainer until the handle releases, and then pull it out as shown in *photograph 6*. There is a



**6. Pull off the lever handle.**

white plastic washer loose behind the handle that will have to be repositioned when reassembling the lock to the door. Take note of which direction it points, so that it will seat properly when you reassemble it.



**7. The same spring-loaded retainer that retains the lever also retains the rose assembly.**

## Why do locksmiths nationwide turn to Commercial Van Interiors?



### Listen to our customers... ...quality

*"I have found your product to be of the best quality and construction... (it) has made me look very neat and organized, sometimes when I'm not even trying."*

Robert Duff  
Around the Clock Lock Shop  
South Elgin, IL

### ...dependability

*"In a world where human error and excuses have become the norm, the friendly competent and professional manner of your staff was indeed refreshing. My new van surpasses all my expectations - I would not change one thing."*

William C. Faddis  
San Diego, CA

### ...satisfaction

*"After going through everything... wooden cabinets, desks, file cabinets, etc. over the years, this modular product is a dream come true."*

George "Red" Freeman  
All-American Lock & Safe  
Little Rock, AK

**Because we outfit thousands of work vehicles every year, we know that your needs are unique to the type of work you do and your personal preferences.**

**That's why we offer the widest variety of van and truck equipment in the industry. Choose from our full line of modular shelving and storage components by Adrian Steel Company for the foundation of your interior arrangement. Specify the type of workbench top that fits your needs. And, top it off with one of our exclusive sloped key machine bases -**

**they're great (a real back saver) in the shop as well as in your van.**

**Whether you use one of our General Locksmith Packages, create your own from scratch or just add a few accessories to your existing interior, Commercial Van Interiors has you covered with the highest quality products at reasonable prices. And, our large inventories mean that most equipment is kept in stock for immediate availability.**

**IN STOCK FOR IMMEDIATE SHIPMENT!**  
NATIONWIDE INSTALLATION AVAILABLE AT YOUR DOOR!

**Call Today... 1-800-759-7477**  
for a free catalog and branch serving you.  
[www.commercialvan.com](http://www.commercialvan.com)

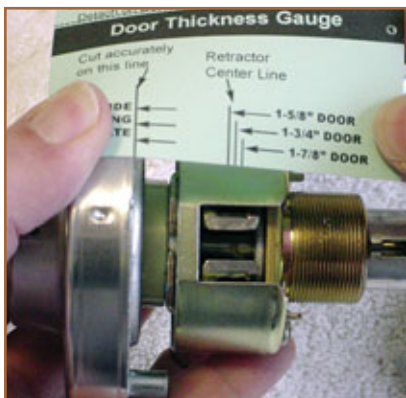


The same spring-loaded retainer that retains the lever handle will also keep the inside rose assembly from just sliding off the lockset. You will need to push in the retainer again, as in *photograph 7*, to release the inside rose assembly. While pushing in the retainer, just pull it off and



**8. Release the inside rose assembly.**

set it aside as in *photograph 8*. The remaining lock assembly is ready to install on the door, unless adjusting the lock for door thickness is necessary. *Photograph 9*, shows a door thickness



**9. A paper door thickness gage.**

gage printed on the paper installation template. Match the printed lines with the back of the outside rose assembly on one side and the center of the latch retractor on the other. Just as with the inside, *photograph 10* shows that you



**10. Rotate the key one-quarter turn and push in the retainer.**

rotate the key one-quarter turn and push in the retainer for removal. After pulling off the lever handle, the outside rose can rotate to alter the door thickness setting, as in *photograph 11*. For thicker doors turn counter-clockwise and for thinner doors turn clockwise. Use your door thickness gage to tell you when to stop. Then reattach the outside lever handle.



**11. Rotate the outside rose to alter the door thickness.**

If you intend to replace or rekey the outside lock cylinder, it can be done while the lock is apart for thickness adjustment, or you might choose to wait until the lock is fully assembled on the door.

## INSTALLING THE LOCK

If the holes are already drilled and the door is otherwise prepped, the first thing you will do is to install the latch on the edge side of the door as in *photograph 12*.



**12. Install the latch.**

The lock assembly is being positioned in *photograph 13*. Push the lock through the 2-1/8" diameter crossbore hole so that the



**13. The lock assembly being positioned.**

latch retractor properly engages the latch. If things are too tight, you may have to remove the lock and make some minor adjustments to the hole until it will allow a clean interlock between the latch and retractor. As you push the lock all the way into the opening, make sure that the screw posts (of the outside rose) line up with the two added (small) crossbore holes.



**14. The inside rose ready to be installed.**

The inside rose assembly is ready to be installed in *photograph 14*. This would be an inside door view. The back side of the rose assembly is shown, with two unthreaded hollow posts that will go into the extra holes from the inside. The inside rose assembly is in place in



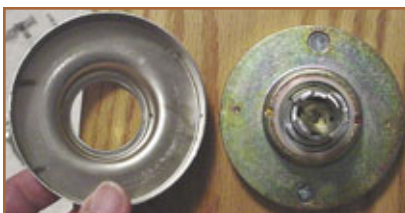
**15. The inside rose in place.**

*photograph 15*, but the mounting screws must still be attached. After the mounting screws are fastened in *photograph 16*, the white/opaque plastic



**16. Fasten the mounting screws.**

washer must be repositioned to where it originally was. The wider part of the washer goes down and the narrower part sticks outward. There is a circular shaped recess in the middle (opening) of the inside rose assembly where the washer will fit and press into place. Once the plastic washer is seated, you will need the rose cover (trim cover plate) to cover the inside rose assembly and conceal the mounting screws.



**17. The inside of the rose cover.**

The inside of the rose cover can be seen in *photograph 17*. There are two metal indents (one each at 3 and 9 o'clock) that will fit into slots in identical positions on the rose assembly. Position the indents and press the rose cover inward until it is all the way in as in



**18. Position the indents and press the rose cover inward.**

*photograph 18*. All that is left now is the inside lever handle.

Because of the interaction between the cylinder tailpiece and the handle retainer, you will need to rotate the key in the cylinder one-quarter turn from the key insertion position before reinstalling the handle. To maintain the timing of the mechanism, it should be rotated to the same position from where it was, when it was previously assembled in the box. We'll go into more detail about the timing a bit later. The key is rotated one-quarter turn clockwise in *photograph 19*, the same



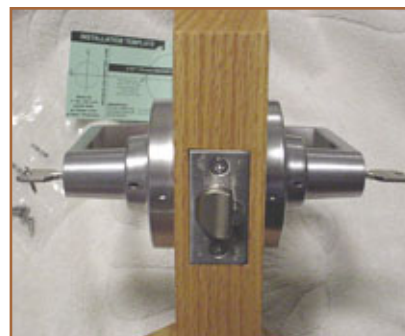
**19. Rotated key one-quarter turn clockwise.**

position as when the handle was removed in *photograph 5*. Position the handle for reassembly and push inward until the spring-loaded retainer catches and retains the handle, as shown in *photograph 20*. The side view in *photograph 21* shows the completed



**20. Push Lever inward until the spring-loaded retainer catches.**

installation. I purposely left keys in both sides to make it apparent that this lock is keyed on both sides although the handle operation is different on each side.



**21. The completed installation.**

**OMNILOCK Standalone Access Systems provide a proven and easy to install solution for all applications...**



**More...Faster...Easier...Better!**

- PC-Based yet Standalone
- HID Prox or Mag Cards
- PocketPC Programmable
- 2,000 Users per Door
- 50,000 Audits per Door
- No Holes to Drill!
- No Wires to Run!
- No laptops or plug-in cables at the Door!
- Program in seconds, not minutes like the others
- UL-Rated and Approved
- Rugged Grade-1 Locks
- Made in USA with PRIDE

**Available in Cylindrical, Mortise, Panic and Fire Exit Hardware, and Wall Mount System configuration (controls electrified hardware).**



**OSI Security Devices**

1580 Jayken Way  
Chula Vista, CA 91911  
phone: 619.628.1000  
fax: 619.628.1001  
www.omnilock.com  
sales@omnilock.com



## LOCK OPERATION

Looking at the installed lock from the outside in *photograph 22*, you'd think the lock was rather ordinary until you looked on the inside. Except for the direction that the handle pointed, both sides



**22. The installed lock from the outside.**

would look the same. Although the inside handle contains a lock cylinder, the classroom intruder function lock works mostly the same as a standard classroom function lockset. *Photograph 23*, shows the interior handle being turned. For this lock, the inside handle will always retract the latch (same as classroom function).



**23. The inside handle will always retract the latch.**

It is the outside handle that is activated or deactivated by the lock cylinder on either side of the lock. Locking or unlocking is accomplished by inserting the key, turning the key 360 degrees (one full turn), and then withdrawing the key. Clockwise (CW) rotation unlocks the lockset



**24. The outside lever operates the same as the inside lever.**

and counter-clockwise (CCW) rotation locks it. The turning direction is the same for both inside and outside lock cylinders. When it is unlocked, the outside lever handle operates the same as the inside handle, as shown in *photograph 24*. The handle turns and the latch retracts. When it is locked, it behaves as in *photograph 25*. The



**25. The handle turns but the latch remains extended.**

handle turns but the latch remains extended. Just as with other Marks "Survivor Series" key-in-lever locksets, the outside handle is a clutching lever. When unlocked, the clutch engages and actuates the latch. When locked, the clutch does not engage and moving the outside lever handle has absolutely no effect on the latch.

Earlier I mentioned timing in relation to the inside and outside lock cylinders. If you turn the key a half turn out of phase when installing either handle, you will throw the timing out of phase. You will not be able to turn the key far enough to remove the key. It will have to be turned back to remove the key. That is why it is important to turn the key the same direction when reattaching a handle as when it was removed.

## ALWAYS TEST THE LOCK

The lock that I assembled came without model specific installation instructions. Instead, the Survivor Series installation sheet was included with the lock. The instructions show information common to all lock functions and then branch off into specifics to each particular function. This is pretty much industry standard (one that I prefer would change), but not unique to Marks.

For most any other lock function, an improper installation would be fairly obvious and I wouldn't be overly concerned. If the Classroom Intruder lock is installed wrong or improperly, it will not provide the security it is intended to in an emergency situation.

The Classroom Intruder lock looks the same from both sides, and when it is unlocked, it works identically from both sides. Unless you test each lock with a key, you will not likely know which side is the correct inside or outside handle.

I believe there should be adequate warnings in the installation instructions about improper installation, and recommendations about testing with a key (before certifying completion of the job) to verify the locks are not installed backward. It also makes sense that some basic information and instruction be given to teachers who will have to deal with this lock. This is a new series of locks and most will not be familiar with its function or proper operation.

In the mean time, if you get a lock with the Survivor Series instruction sheet, just remind yourself of the details I've pointed out. Always test the locks with a key to assure it operates properly, because you can't tell by just looking at it.

---

*For more information contact:*  
MARKS U.S.A., 5300 New  
Horizons Blvd., Amityville, NY  
11701. Phone: 800-526-0233 or  
(631) 225-5400; Fax: (631) 225-  
6136; E-Mail: [wjs@marksusa.com](mailto:wjs@marksusa.com);  
Web: [www.marksusa.com](http://www.marksusa.com).

**TRI**

# 2002 AutoSmart™

from The National Locksmith®

**M**ajor changes, additions and revisions to the AutoSmart Book™ have been made, and the 2002 AutoSmart™ is now available!

The information has grown so huge - 800 pages-- that the book will no longer easily fit into a binder. Therefore, the format has changed. AutoSmart™ has been divided into two separate volumes, Foreign and Domestic. Each volume is bound in lay-flat, sturdy vinyl covers, and is organized for quick and instant reference.



**You** may purchase either a 2002 AutoSmart™ Foreign Volume or a 2002 AutoSmart™ Domestic Volume for \$45.00. Or, if you'd like both, the cost is only \$65.00 for a set of both! Obviously, this is your best deal.

There is no way to update 2001 and older versions of AutoSmart™. Instead of a mish-mash of pages to remove and replace, you'll be able to purchase a brand new set of books each year, fully updated and undamaged from years of use.

Order your set of Foreign and Domestic 2002 AutoSmarts™ today by using the coupon below.

**Order online at [www.TheNationalLocksmith.com](http://www.TheNationalLocksmith.com)**

OID 04/02

- ☐ **YES!** Send me the **2002 AutoSmart™ Set** for **\$65** (contains the 2002 Domestic & the 2002 Foreign AutoSmart™) plus \$8 for shipping and handling. (Item# AS-SET)
- ☐ **YES!** Send me the **2002 Domestic AutoSmart™** for **\$45** plus \$8 for shipping and handling. (Item# AS-02D)
- ☐ **YES!** Send me the **2002 Foreign AutoSmart™** for **\$45** plus \$8 for shipping and handling. (Item# AS-02F)

*Orders must be paid in U.S. funds. \$20 foreign shipping rate applies.*

Select payment Method:

- ☐ Check ☐ VISA ☐ MasterCard ☐ Discover  
☐ American Express ☐ Money Order

Order Total \_\_\_\_\_

Card Number \_\_\_\_\_ Exp. Date \_\_\_\_\_

Signature (required) \_\_\_\_\_

Name \_\_\_\_\_

Shop Name \_\_\_\_\_

Address (no P.O. boxes) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_

E-Mail (optional) \_\_\_\_\_

*Copy or clip this coupon and send with payment to:*

The National Locksmith • P.O. Box 77-97592 • Chicago, Illinois 60678-7592

**OR** fax credit card orders to (630) 837-1210





**T**he availability of software programs for the locksmith industry has dramatically increased in just the last few years. The following is a good sampling of software products available from various suppliers to meet most locksmiths needs. Included is the product name, stock number, a brief description, suggested dealer cost, and contact information for your convenience. You can also circle the corresponding number on the rapid reply card supplied in the issue for more information, and in many cases, free demos for the asking.

#### **BLACKHAWK PRODUCTS**

**Product:** Medecode™

**Stock#:** Medecode

**Description:** The two standard Medeco codebooks, plus random code selection, reverse code lookup, and a mini-database.

**Suggested Dealer Cost:** \$59.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID  
REPLY FOR MORE INFORMATION.**

#### **BLACKHAWK PRODUCTS**

**Product:** RAC: Reverse Auto Codes

**Stock#:** RAC

**Description:** Innovative (and simple) reverse code lookup for automotive applications. The first thing you do is type in the cuts...

**Suggested Dealer Cost:** \$119.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID  
REPLY FOR MORE INFORMATION.**

#### **BLACKHAWK PRODUCTS**

**Product:** KBX: Key-Blank

Cross-References

**Stock#:** KBX

**Description:** Simplest, most thorough collection of key blank equivalents, continually updated.

**Suggested Dealer Cost:** \$149.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID  
REPLY FOR MORE INFORMATION.**

#### **BLACKHAWK PRODUCTS**

**Product:** Codes On-line

**Stock#:** COL

**Description:** The code program you run from your web browser or your cell phone. We do all the updating for you.

**Suggested Dealer Cost:** \$49.00  
a Year

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID  
REPLY FOR MORE INFORMATION.**

#### **BLACKHAWK PRODUCTS**

**Product:** SFIC Pin Charts

**Stock#:** SFIC

**Description:** On-Line pinning calculator for all small format interchangeable cores.

**Suggested Dealer Cost:** FREE

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID  
REPLY FOR MORE INFORMATION.**

#### **BLACKHAWK PRODUCTS**

**Product:** KBX On-line

**Stock#:** KOL

**Description:** Key blank Equivalents in four languages, with pictures, automatically updated, for all web browsers.

**Suggested Dealer Cost:** \$20.00  
a year

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID  
REPLY FOR MORE INFORMATION.**

#### **BLACKHAWK PRODUCTS**

**Product:** PIN: Pin It Now!

**Stock#:** PIN

**Description:** Pinning chart calculator for your choice of control, master, and change keys. Covers most common cylinders, gives original, .005 and .003 pin lengths.

**Suggested Dealer Cost:** \$59.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID  
REPLY FOR MORE INFORMATION.**

#### **BLACKHAWK PRODUCTS**

**Product:** FILL: Fill The Combination

**Stock#:** FILL

**Description:** The original automotive progression program. Fast searches, sensible charts and easy operation. Freestanding (not bundled with codes).

**Suggested Dealer Cost:** \$99.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID  
REPLY FOR MORE INFORMATION.**

### BLACKHAWK PRODUCTS

**Product:** SCG: Safe Combination Generator

**Stock#:** SCG

**Description:** Random safe combinations tailored to the needs of the customer and the lock.

**Suggested Dealer Cost:** \$19.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID REPLY FOR MORE INFORMATION.**

### BLACKHAWK PRODUCTS

**Product:** Biaxial Master Keying

**Stock#:** BMK

**Description:** Gives you full control of the KBA. Produces only the combinations that can be used.

**Suggested Dealer Cost:** \$69.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID REPLY FOR MORE INFORMATION.**

### BLACKHAWK PRODUCTS

**Product:** VRCI: Remote Control for the ITL

**Stock#:** RCI

**Description:** A driver for ITL code machines that lets you store space / depth information and download combinations singly or in lists.

**Suggested Dealer Cost:** \$69.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID REPLY FOR MORE INFORMATION.**

### BLACKHAWK PRODUCTS

**Product:** COD: Codes on Disk

**Stock#:** COD

**Description:** Accurate, comprehensive, easy to use, affordable, compact, complete code package. For any Windows (or DOS) system.

**Suggested Dealer Cost:** \$479.00

**Phone:** 970-882-7191

**E-Mail:** staff@blackhawk7.com

**Web:** www.blackhawk7.com

**CIRCLE NUMBER 201 ON RAPID REPLY FOR MORE INFORMATION.**

### CLEARSTAR SECURITY NETWORK

**Product:** www.clearstar.com

**Description:** Internet site for locksmiths & safe-techs with searchable technical archives includes photos.

**Suggested Dealer Cost:** Annual Subscription \$45.00

**Phone:** 510-841-4807

**E-Mail:** info@clearstar.com

**Web:** www.clearstar.com

**CIRCLE NUMBER 202 ON RAPID REPLY FOR MORE INFORMATION.**

### CORBIN RUSSWIN ARCHITECTURAL HARDWARE/An ASSA ABLOY Group Co.

**Product:** Intellikey's EZ123 Control Software

**Stock#:** 102127/102128

**Description:** Used with Intellikey electronic cylinder, this software provides many features such as time zones and key auditing with full record of all key activity.

**Phone:** 800-543-3658

**E-Mail:** None

**Web:** www.corbin-russwin.com  
**CIRCLE NUMBER 203 ON RAPID REPLY FOR MORE INFORMATION.**


### CORBIN RUSSWIN ARCHITECTURAL HARDWARE/An ASSA ABLOY Group Co.

**Product:** Key Wizard by Corbin Russwin


**Stock#:** 68092 & 68093

**Description:** Software offers facility end users tracking of detailed information concerning their key systems, clear, easy to read screens and accurate key symbol sorting.

## NORTHEAST LOCK IS YOUR KEYSWITCH CONNECTION



- Make **Northeast Lock** your one source for virtually any keyswitch requirement. We offer high security with sophisticated master keying arrangements and restricted key control to a universally popular mini tubular or flat key switch lock.
- Multi key operating, combined maintaining/momentary or double momentary are some of the unique functions we can provide.
- Custom or standard wire harness arrangements are available. Solder, screw or spade terminal connections offered on many arrangements.
- Northeast Lock** keyswitches are designed for use in elevator, security, computer, safety and many other applications.
- You can rely on **Northeast Lock** to provide first quality products, quick service, knowledgeable sales staff and competitive pricing for all your keyswitch requirements. Call us at 800-524-2575, fax us at 800-524-2576 or visit us on line at [www.northeastlock.com](http://www.northeastlock.com). We gladly accept VISA, MasterCard and American Express.



# NEL

NORTHEAST LOCK CORP.



**Phone:** 800-543-3658  
**E-Mail:** None  
**Web:** www.corbin-russwin.com  
CIRCLE NUMBER 203 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **DALAX, INC.**

**Product:** Lock Hardware  
Cross Reference

**Stock#:** 3.0

**Description:** Comparisons of 88 manufacturers-institutional and light residential locks, keys, panics, cylinders, etc.

**Suggested Dealer Cost:** \$360.00

**Phone:** 972-234-8009

**E-Mail:** simon@simon-says.com  
**Web:** www.simon-says.net  
CIRCLE NUMBER 204 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **DATA-BASICS, INC.**

**Product:** SAM Pro Enterprise

**Stock#:** S.O.

**Description:** Comprehensive service management, mobile workforce, and back office accounting solution. Includes proactive management tools, automatic report generation, secure web link with techs, customers, subcontractors and vendors.

**Suggested Dealer Cost:** Depends on configuration

**Phone:** 800-837-7574  
**E-Mail:** sam@ databasic.com  
**Web:** www.databasic.com  
CIRCLE NUMBER 205 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **DLA SECURITY SYSTEMS, INC.**

**Product:** Tracer Key Control

**Description:** Tracer is designed to manage a master key system and personnel key records.

**Phone:** 908-233-7755

**E-Mail:** dlasec@pipeline.com

**Web:** www.dlaco.com

CIRCLE NUMBER 206 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **DLA SECURITY SYSTEMS, INC.**

**Product:** Multi-Master Pro

**Description:** Software to generate master key systems for both standard and interchangeable core cylinders.

**Phone:** 908-233-7755

**E-Mail:** dlasec@pipeline.com

**Web:** www.dlaco.com

CIRCLE NUMBER 206 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **DLA SECURITY SYSTEMS, INC.**

**Product:** Multi-Tracker

**Description:** Multi-Tracker is locksmith software for managing multiple master key systems.

**Phone:** 908-233-7755

**E-Mail:** dlasec@pipeline.com

**Web:** www.dlaco.com

CIRCLE NUMBER 206 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **DLA SECURITY SYSTEMS, INC.**

**Product:** Multi-Tracker +

**Description:** Multi-Master + software to generate master key systems for standard cylinders.

**Phone:** 908-233-7755

**E-Mail:** dlasec@pipeline.com

**Web:** www.dlaco.com

CIRCLE NUMBER 206 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **DLA SECURITY SYSTEMS, INC.**

**Product:** Multi-Core +

**Description:** Multi-Core + software to generate master key systems for interchangeable core cylinders.

**Phone:** 908-233-7755

**E-Mail:** dlasec@pipeline.com

**Web:** www.dlaco.com

CIRCLE NUMBER 206 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** Interactive Car Opening Authority® CE & Code Source™ CE with Hewlett Packard Jornada

# **SARGENT**

## **The Latest Technology in Architectural Hardware**

### **Setting the Standards...A Sargent Tradition**

Ace Lock & Security Supply offers a large in-stock selection of **Sargent** locksets, door closers, exit devices, security key and electronic access control systems for the locksmith, institutional and industrial markets. At Ace Lock & Security Supply our customer service representatives can assist you in finding exactly the right style, finish and

operating precision to meet your project needs, whether new or retrofit.

We're especially set up to provide guidance in planning and application support. Customer service at Ace is manned by experienced locksmiths who understand problems and can promise in-depth product assistance.



ACE LOCK & SECURITY SUPPLY

WHOLESALE DISTRIBUTORS

**The First Force In Security**

565 Rahway Avenue, Union, NJ 07083 1800.ACE.LOCK (223.5625)  
24 Hour Fax: 1800.223.3294 Technical Support Hot Line: 908.688.7666

**Email Ace Lock through [www.acelock.com](http://www.acelock.com)**

**Ace Lock has these Manufacturers always in stock**

ABUS	CHICAGO LOCK	FRAMON	IVES	HASKAR	OLYMPUS	SECURITRON
ADAMS RITE	CORBIN RUSSWIN	OLYNN JOHNSON	KEEDER	MARKS	OSI	SEGAL
ALPHONE	DETEX	GROBET	KERI SYSTEMS	MASTER LOCK	PRECISION	SIMPLEX
ALARM LOCK	DON-JO	HAGER	KWIKSET	MEDECO	PROGRESSIVE	SPECIALTY PRODUCTS
ALARM CONTROLS	DOR-O-MATIC	HES	LCN	MONARCH	RIXSON	STANLEY
AMERICAN LOCK	ESP	HPC	LOCKNETICS	MORSE	ROCKWOOD	TELKEE
ARROW	FOUGER ADAMS	IBI	LUCKY LINE	NATIONAL GUARD	ROTON	VON DUPREIN
CCIL	PORT LOCK	ILCO UNICAN	M.A.G.	NORTON	SARGENT	YALE

**Stock#:** CEHPC

**Description:** Designed specifically for use on hand-held PC's that use Windows® CE Pro operating system. This product enables you to carry your entire shop everywhere.

**Suggested Dealer Cost:** \$1795.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** Interactive Car Opening Authority™

**Stock#:** COA-CD

**Description:** This guide clearly depicts and explains the 13 methods of car opening. 4 computerized vehicle-opening reference that serves as an educational aid and opening index.

**Suggested Dealer Cost:** \$163.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** Live Action Learning Software Collection Set

**Stock#:** HT-CD

**Description:** This collection is a set

of all 5 of HPC's "How To" interactive guides. The essentials of the security industry on 5 easy to follow CD's.

**Suggested Dealer Cost:** \$315.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** How to Create Master Key Systems

**Stock#:** HT-CMK1

**Description:** How to create Master Key Systems is the perfect topic for this training format. It is a concise, easy to understand program!

**Suggested Dealer Cost:** \$75.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** How to Master Car Opening

**Stock#:** HT-MC01

**Description:** This detailed multimedia approach will introduce you to the 13 methods of car opening. Master these methods and you can approach any car opening with confidence.

**Suggested Dealer Cost:** \$75.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** How to Pick Tubular Locks

**Stock#:** HT-PTL1

**Description:** Become proficient in picking common tubular locks with HPC's easy to follow interactive guide. You will learn how tubular locks work making them easier to pick.

**Suggested Dealer Cost:** \$75.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** How to Pick Locks

**Stock#:** HT-PLX1

**Description:** This interactive guide introduces you to the necessary procedures for picking and raking most pin and disc tumbler locks. Perfect for training needs!

**Suggested Dealer Cost:** \$75.00

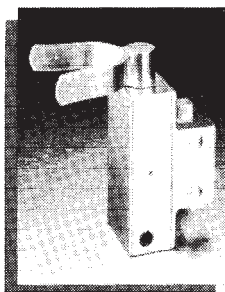
**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

## **The Best Fence Gate Locks Yet !**

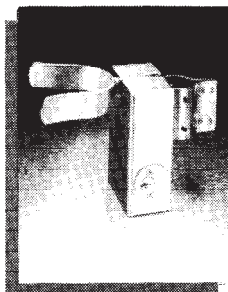
### **Quick Lock™**

On-line catalog and price list  
[www.gatelock.com](http://www.gatelock.com)



#### **AUTOMATIC**

- Self-latching
- Heavy-duty construction
- Installs in minutes
- For chain link and ornamental gates



#### **HEAVY DUTY DEAD BOLT**

- Residential
- Commercial

International Locking Dev. Ltd, CT

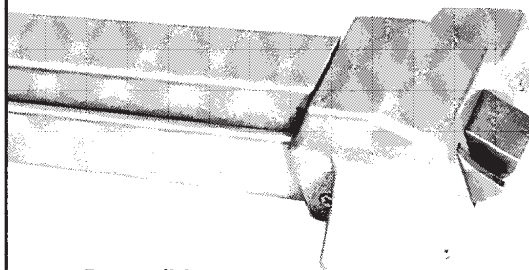
**800-863-9600**

Circle 236 on Rapid Reply

# **APR★USA®**

## **EXIT DEVICES**

Solid & Stainless Steel **ED22**  
— Vertical Rod & Fire Rated — Series



- Reversible
- 3-Year Warranty
- NO Plastic! Solid Steel or Stainless Steel Construction
- Stainless Steel Latches and Springs
- Fits 161 Stock Hollow Metal Cutout
- Retro Fits Corbin 29 & Russwin 372
- Sex Nuts and HM Filler Plates Included
- Thru Bolted Trim Including ADA Lever Handle



APR Industries Inc. P.O. Box 342 Boonton, NJ 07005  
1-800-729-2674 • FAX 800-646-8721

Circle 274 on Rapid Reply

March 2003 • 57



**Web:** www.hpcworld.com  
CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** How to Re-Key Cylinders  
**Stock#:** HT-RKC1

**Description:** This step-by-step interactive guide introduces you to changing the combination of pin tumbler locks; one of the most important tasks in the locksmithing field.

**Suggested Dealer Cost:** \$75.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** Interactive Depth & Spacing Guide

**Stock#:** HDSB-CD

**Description:** An indispensable guide for anyone in the security industry. The Interactive Depth & Spacing Guide makes creating keys foolproof.

**Suggested Dealer Cost:** \$52.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** KeyChoice™

**Stock#:** KC-35

**Description:** A comprehensive key blank cross-reference program. KeyChoice™ is a database of thousands of key blanks that easily allows you to search, sort, add and update information.

**Suggested Dealer Cost:** \$99.95

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** KeyTrail™

**Stock#:** KT-CD

**Description:** KeyTrail™ allows for the complete management of keys, the door they open and the personnel that hold them, all from one screen.

**Suggested Dealer Cost:** \$395.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** MasterKing®

**Stock#:** MK-CD

**Description:** Enter basic information and MasterKing™ will generate a superior Master Key System quickly and easily. Use MasterKing® to produce accurate systems in minutes instead of days.

**Suggested Dealer Cost:** \$325.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **HPC, INC.**

**Product:** CodeSource™

**Stock#:** CS-CD

**Description:** It is the most comprehensive, user-friendly code retrieval program on the market today! CodeSource™ clearly displays all pertinent code information, simply point and click.

**Suggested Dealer Cost:** \$695.00

**Phone:** 800-323-3295

**E-Mail:** hpc@hpcworld.com

**Web:** www.hpcworld.com

CIRCLE NUMBER 207 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **INVESTIGATIVE LAW OFFICES**

**Product:** Education-Supplement  
TD Book



**YOUR ONE SOURCE  
for**

**ALARM LOCK**

**Trilogy® Prox Locks**

These weatherproof combination Proximity locks accept most HID Proximity cards and keyfobs, including 26 - 48 bit formats, and can be programmed with up to 2,000 user codes. These locks feature an Audit Trail of up to 40,000 events, with printed time/date-stamped log of all electronic activity.

**Trilogy® T2 Series**

Trilogy® T2 Series locks are easy-to-install electronic digital locks available in both indoor and outdoor models. All T2 Series locks are battery operated and fully programmable with variable entry times ranging from 5 - 15 seconds. The outdoor model has a dual water-sealed keypad, waterproof battery holder and a completely sealed circuit board.

**Access is a longstanding distributor  
of Alarm Lock. We know their products—  
inside and out.**

**AHS**

**ACCESS HARDWARE SUPPLY**

14359 Catalina Street, San Leandro, CA 94577  
Phone: 800-348-2263 • Fax: 800-435-8233  
www.accesshardware.com

© 2001 Access Hardware Supply. All rights reserved.  
Alarm Lock® and the logo are registered trademarks of Alarm Lock, Ardenlyle, NY. 11701-1000.

# Lesson #1: Size $\neq$ Strength

## The MS Maglock is 4,000 pounds tough!

INCREDIBLE STRENGTH  
COMPACT SIZE  
LIGHT WEIGHT  
EASY TO INSTALL



**Amazingly Strong.** If you think being stronger means being bigger and heavier, then you haven't met the MS Maglock™. This revolutionary new maglock is small, light and stingy with power draw. It's also a breeze to install compared to those big, heavy maglocks.

But don't let the size fool you. The MS Maglock has an ingenious design,



utilizing mechanical steel mandibles that clamp the armature in the event of a forced entry. This gives the MS Maglock an amazing 4,000 pounds of holding force! No typical maglock can touch that.

So, we learned today that size does not equal strength. The proof? Contact Adams Rite for the MS Maglock at 800 87-ADAMS.



[www.adamsrite.com/ant2](http://www.adamsrite.com/ant2)

Circle 219 on Rapid Reply



**Continued from page 58**

**Stock#:** LSS+

**Description:** Multimedia supplement to Second Edition of Locks, Safes and Security. Locksmith Version 5 Disks.

**Suggested Dealer Cost:** \$275.00 Wholesale

**Phone:** 800-367-8369

**E-Mail:** mwtobias@security.com

**Web:** www.security.org

CIRCLE NUMBER 208 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### KEYSOFT SECURITY SOFTWARE

**Product:** MasterkeyPro™ Master Keying Software

**Stock#:** MKP2001

**Description:** MasterkeyPro™ is everything you need to Design, Create and Maintain your Master Keying Jobs with ease, large or small. This software is great for all locksmiths and lock professionals alike.

**Suggested Dealer Cost:** \$295.00

**Phone:** 800-505-6636

**E-Mail:** rick@MasterKeyPro.com

**Web:** www.masterkeypro.com

CIRCLE NUMBER 209 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### KEYSOFT SECURITY SOFTWARE

**Product:** Create-A-Card™

**Stock#:** CAC

**Description:** Create-A-Card™ is used to create HPC code cards, on your own PC. You enter the Depths and Spaces from your code information and a card is created for printing. Make as many cards as you want.

**Suggested Dealer Cost:** \$75.00

**Phone:** 800-505-6636

**E-Mail:** rick@MasterKeyPro.com

**Web:** www.masterkeypro.com

CIRCLE NUMBER 209 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### MARK FLEMING ENTERPRISES

**Product:** The Desktop Dispatcher

**Stock#:** TDD.01, TDD.02, TDD.03

**Description:** The low cost, easy to use, dispatching software. Create, track, E-mail, and print service calls, customer info and appointments. Works with Quick Books Pro too.

**Suggested Dealer Cost:** \$180.00, \$262.00, \$35.00 = 30% discount off of retail. Not required to stock inventory.

**Phone:** 561-714-5240

**E-Mail:** None

**Web:** www.DesktopDispatcher.com

CIRCLE NUMBER 210 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### SPEEDYPIK CORP.

**Product:** SPEEDYPIK Key ID System, SPEEDYPIK Decoder

**Description:** Key ID System will identify in seconds. Key Decoder will identify cuts of keys.

**Suggested Dealer Cost:** Key ID \$1,495.00 Key Decoder \$849.00

**Phone:** 617-567-1111

**E-Mail:** speedypik@aol.com

**Web:** www.speedypik.com

CIRCLE NUMBER 211 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### STRATTEC SECURITY CORP.

**Product:** PartSearch

**Description:** CD-Rom produced by STRATTEC Security Corporation includes complete product information dating back to the 1972 model year. Information can be accessed in a number of ways: by model year, by vehicle make or manufacturer, or by part number. It also references non-STRATTEC part numbers, and contains graphics and application guides for thousands of parts. PartSearch can easily be installed on any PC with a minimum of 16 Meg of Ram, and eliminates the need for unnecessary print catalogs, application guides and part lists. Sorry, this product does not work with Macs.

**Suggested Dealer Cost:** \$10.00

**Phone:** 414-247-3333

**E-Mail:** None

**Web:** www.strattec.com

CIRCLE NUMBER 212 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### THE NATIONAL LOCKSMITH®

**Product:** InstaCode 2003

**Description:** The premium software that gives you more: key blank cross reference, print code cards, photos of ASP parts for autos, transponder and car opening info.

**Suggested Dealer Cost:** \$695.00

**Phone:** 630-837-2044

**E-Mail:** natllock@aol.com

**Web:** www.TheNationalLocksmith.com

CIRCLE NUMBER 213 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### THE NATIONAL LOCKSMITH®

**Product:** Pocket InstaCode

**Description:** Runs on handheld computers running Windows CE 2000 or better. Carry millions of codes in the palm of your hand for instant look up.

**Suggested Dealer Cost:** \$495.00 (\$349.00 to InstaCode owners)

**Phone:** 630-837-2044

**E-Mail:** natllock@aol.com

**Web:** www.TheNationalLocksmith.com  
CIRCLE NUMBER 213 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### THE NATIONAL LOCKSMITH®

**Product:** ProMaster 4

**Description:** The most comprehensive master key and management system in the world. Stores permanent records of everything done within the system.

**Suggested Dealer Cost:** \$1895.00

**Phone:** 630-837-2044

**E-Mail:** natllock@aol.com

**Web:** www.TheNationalLocksmith.com

CIRCLE NUMBER 213 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### TRESKAT USA CORP.

**Product:** CodeMaster

**Stock#:** CodeMaster

**Description:** Compatibility MS-DOS or Windows XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$198.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### TRESKAT USA CORP.

**Product:** Perfect Master 5

**Stock#:** Perfect Master

**Description:** Create any system by answering 3 questions. Compatibility: MS-DOS or Windows XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$189.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### TRESKAT USA CORP.

**Product:** KeyWiz

**Stock#:** KeyWiz

**Description:** Find missing cuts for automotive locks. Compatibility: MS-DOS or Windows XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$189.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

---

### TRESKAT USA CORP.

**Product:** TimeMaster

**Stock#:** TimeMaster

**Description:** Compatibility: MS-DOS or Windows XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$99.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **TRESKAT USA CORP.**

**Product:** KeyManager

**Stock#:** KeyManager

**Description:** Key blank cross-reference and hook number software.

Compatibility: MS-DOS or Windows  
XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$69.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **TRESKAT USA CORP.**

**Product:** AutoMaster

**Stock#:** AutoMaster

**Description:** Computerized  
automotive encyclopedia.

Compatibility: MS-DOS or Windows  
XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$99.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **TRESKAT USA CORP.**

**Product:** Advantage

**Stock#:** Advantage

**Description:** Inventory, Invoicing and  
Accounts receivable software.

Compatibility: MS-DOS or Windows  
XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$99.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **TRESKAT USA CORP.**

**Product:** MaxiKey

**Stock#:** MaxiKey

**Description:** Create and track unique  
bitting lists for non-master keyed and  
I/C locks. Compatibility: MS-DOS or  
Windows XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$69.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **TRESKAT USA CORP.**

**Product:** MasterKard

**Stock#:** MasterKard

**Description:** Print codes for HPC  
1200 and punch machines.

Compatibility: MS-DOS or Windows  
XP, ME, 98, 95 or 3.x.

**Suggested Dealer Cost:** \$69.95

**Phone:** 800-645-5657

**E-Mail:** None

**Web:** www.treskat.com

CIRCLE NUMBER 214 ON RAPID  
REPLY FOR MORE INFORMATION.

#### **YALE COMMERCIAL LOCKS AND HARDWARE/AN ASSA ABLOY Group Co.**

**Product:** Key Wizard by Yale

**Stock#:** 68090 & 68091

**Description:** Customized query,  
report & search capabilities; manages  
multiple end users & multiple key  
systems for all manufacturers.  
Network & standalone versions  
available.

**Phone:** 800-438-1951

**E-Mail:** None

**Web:** www.yalelocks.com

CIRCLE NUMBER 215 ON RAPID  
REPLY FOR MORE INFORMATION.

STI



## MIDWEST WHOLESALE HARDWARE

You told us you want a huge inventory  
of brand names at competitive prices, smart  
sales personnel and same-day shipping.

We've been listening.















VISALIA, CA  
888/707-8527  
Fax: 888/724-6581

KANSAS CITY, MO  
800/821-8527  
Fax: 800/621-6581

ORLANDO, FL  
800/659-8527  
Fax: 800/659-6581

E-mail: [HDWSales@MidwestWholesale.com](mailto:HDWSales@MidwestWholesale.com)

### Can this low-cost unit solve your fire door exit/entry problems? **It solved theirs!**



"Since we installed Exit Stopper, fire doors are no  
longer opened when they aren't supposed to be."  
Ralph Good, Maintenance Supervisor  
Callaway Public Schools



"Since we installed the STI Exit Stopper, there are no more  
unwanted exits from the gym door. It stopped dirt from being  
tracked back on the floor."  
Mike Carbaugh, Head Custodian  
Mari-Linn School



"The Exit Stopper is working fine for the museum  
it was installed on. I even used one while it was  
needed to keep my kid from sneaking out of the  
house!"  
Bruce Jehning  
Camas Valley Locksmith



### And thousands more!

Why risk theft and worse from unauthorized entries and  
exits through fire/emergency doors? CALL TODAY.

## 800-888-4STI



Safety Technology International, Inc.  
2306 Airport Rd • Waterford, MI 48327  
Phone: 248-673-9898 • Fax: 248-673-1246  
Website: [www.stopper.com](http://www.stopper.com)

© 2001, 2002 STI



**A**larm Lock is a division of NAPCO Security Group. Alarm Lock was acquired in 1987 and is NAPCO's fastest growing product group. Originally known worldwide for its panic exit devices and delayed egress alarms, Alarm Lock has expanded its reputation with the popular Trilogy® line. These aesthetically pleasing, durable electronic digital locks are also known as the Trilogy "T2" and "T3" Series and are used by retailers, universities and institutions around the globe.

Trilogy locks come in weatherproof models, as well as cylindrical and new mortise-lock styles. They offer audit trails that allow a log of all entry activity to be printed to either a handheld infrared

The very latest addition to the Alarm Lock line is the Trilogy Prox Locks. They combine the key features of established standalone Trilogy locks with proximity technology. It just so happens that I have a PDL 3000 Series, Trilogy Prox, single door entry set to show you. In this installment I will show you the insides of the lock, its features and a brief run down of the installation process. In the next installment I will cover the different ways the lock can be programmed and the accessories that can make the job easy.

The PDL 3000 Series is a combination Prox and/or PIN, single door, access control system. (See *photograph 1.*) It is a grade 1, heavy-duty cylindrical lockset. It is UL

The lock is furnished with a solid brass 6 pin tumbler cylinder keyed to 5 pin with a SC1 keyway. (See *photograph 3.*) Tailpieces for Schlage (HW580) & Lori (HW620) cylinders are furnished. Standard IC core models accept Arrow®, Best®, Falcon®, KSP® and Kaba Peaks® 6 or 7 pin IC core cylinders. An Alarm Lock tailpiece for use with IC core cylinders is furnished. IC core models prepped for Yale®, Medeco®, Corbin-Russwin®, Sargent® and Schlage® are also available.

***Here are the prominent features of the PDL 3000:***

- Accepts most HID Proximity cards and keyfobs, including 26 - 48 bit formats.

# TRILOGY

— Part I —

## Alarm Lock

by  
Richard Allen Dickey



printer or a Windows PC. The T3 model even offers real-time locking and event scheduling for holidays, selected by lock and by user or user group.



**1. The Trilogy Prox PDL 3000 from Alarm Lock. It is a combination Prox and/or PIN, single door access control system.**

listed to the 10C Positive Pressure Specification. The latchbolt is UL listed and has a 3-hour fire rating. (See *photograph 2.*) The lock is FCC certified and has ADA compliant levers. It is available in US3 polished brass, US26D satin chrome, US26 polished chrome, US5 antique brass, plus special order finishes (including Durondic US10B).



**2. The standard latch is UL listed, has a 2-3/4 inch backset, and has a 3 hour fire rating.**

- Authorized digital code allows lever to retract latch. Inside lever is always in passage mode and permits instant egress.
- 2000 User codes, consisting of Master, manager, supervisor and basic users.
- 4 Programming levels.
- 4 User groups.
- 3 to 6-digit codes.
- One-time service code.



**3. The lock is furnished with a solid brass 6 pin tumbler cylinder, keyed to 5 pin with a SC1 keyway.**

# National Auto Lock Service, Inc.

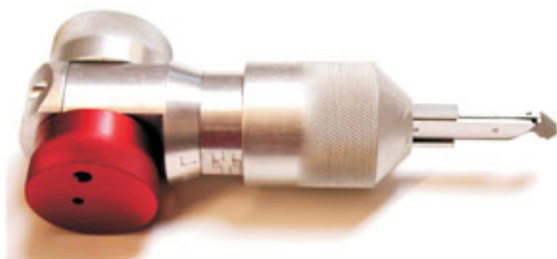
## 1-800-954-5454

### High Security Lock Decoders

This new tool from Laserkey Products will decode High Security door locks in just a couple of minutes. I was able to decode a Bug door lock in no time and very accurately. Works great and a real jewel of time saver. Comes with color instructions and key grids and hard shell carry case.



V W 2-Trk - \$219  
BMW 4-Trk - \$269  
M/B 4-Trk - \$269



### Auto, Theft & Fire

Forensic Examination &  
Fraud Investigation Stolen,  
Damaged & Burned  
Vehicles



Written by,  
Gary A. Turnberger  
& Ken Vitty

- > Vehicle Physical Damage
- > Theft & Fire Claims
- > Steering Column & Ignition Locks
- > Key & Lock - Wear Pattern Analysis
- > Salvage Examinations
- > Interviewing
- > Report Writing & Depositions

**\$89**

### Original Ford Focus Ignitions

Original factory ignitions for the Focus, Escape & Tribute. These are the original equipment lock cylinders for the ignition. They fit the Ford Focus, Ford Escape and the Mazda Tribute.



These are complete service packs with tumblers, springs and tumbler spring cap.

With "ears" or without, specify when ordering

**\$28.89**

### TCL-1 Key Programmer

Transponder systems in cars threatened to take the locksmith out of the business of making car keys. Besides the official car manufacturers' machines which are very expensive and sometimes difficult to obtain. We believe that the TCL-1 is by far the best value for the money for this type of machine.



Call for current pricing - 800-954-5454

### Lexus & Toyota Computer Re-Flash

We can "Re-Flash" the immobilizer chip in the ECM module so it will accept new transponders keys when there are no keys available or just a valet. All Models!

- > No chip removal
- > No soldering involved
- > 3 Keys Included



The price for this service is **\$150. + \$35** returnnext business day shipping by FEDEX



## Continued from page 62

- Users are individually programmed to use a card only, code only, or for the highest security, both card and code.
- Card data can be added to

remote release events, unauthorized code attempts, etc. This can be extracted from the lock by using the AL-IR1 (infrared printer), the AL-DTM (data transfer module) or the

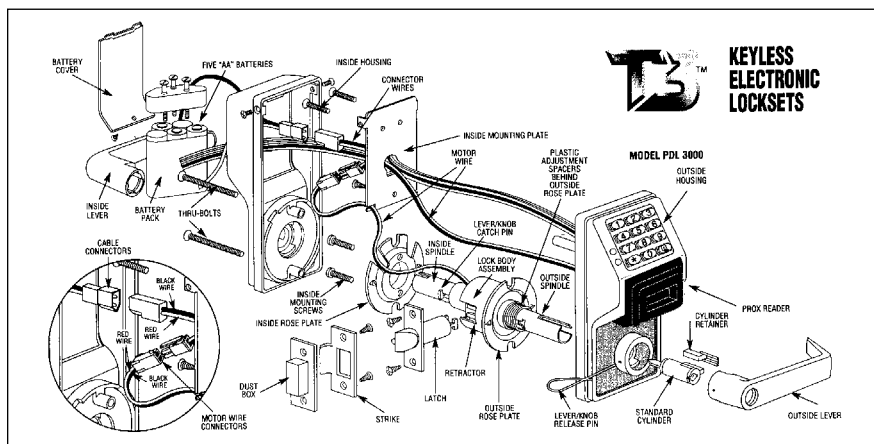
3000 consists of a 2-1/8" cross bore, a 1" edge bore, two 3/8" through-bolt holes, two 5/16" mounting plate holes and a 3/4" hole for the wires to pass through the door. To help with some of the details I have included an exploded view. (See photograph 4.)

If the handing of the lock is correct, the outside lever does not have to be removed. However the inside lever (See photograph 5) does have to be removed so the inside housing and inside rose plate can be removed. (See photograph 6.)

To satisfy my curiosity, I also removed the outside lever and housing from the lock body. I wanted to get a look at the electronics and see just how waterproof this lock really is. As soon as I got the cover

off of the back of the lock I got my answer. (See photograph 7.) The circuit board and keypad are covered in a rubber type material. You will not be replacing any electronic parts on this lock, but I also don't think it is going to fail from water intrusion either.

Before putting the lock body and the outside housing back together, I thought I should check my door thickness. In my case I had a 1-3/4" door. The lock is adjusted for door thickness by adding or removing spacers. Photograph 8, shows the lock body with three



4. Here is an exploded view of the entire lock.

software via the keypad on the lock, card reader module or a PC.

- Batch enroll feature allows many cards to be quickly added to the software via the lock without the use of a PC.
- Weatherproof and operates from -20F to +151 F.
- Fingertip (keypad) or Windows PC-programmable.
- Program data transferred to lock via AL-PCI (PC interface) or AL-DTM (data transfer module).
- Real time clock enables up to 500 scheduled events and holiday schedules.
- Schedule Events such as lock/unlock or disable/enable users, with the 4 built-in time schedules.
- Up to 40,000 event Audit Trail with printed time and date-stamped log of all electronic activity including Unlock/lock events, program mode changes, user entry, keypad lockout,

AL-PCI (PC interface).

- The 5 AA batteries furnished will typically last for 60,000 cycles. An audible low battery alert is built in.

- 'Quick Passage' Mode enabled with an authorized user code and function code (does not require lock to be in program mode).

- Comes with either a standard or Regal curved handle trim.

- Total user lockout code.

- "First-Manager-In" controls three different features: Passage mode, group of users and relay options.

- Tri-colored LED indicator shows code acceptance or denial (green or red, respectively), or low battery condition (yellow).

- Non-volatile memory of both programming and Audit Trail activity.

- Keypad lockout after numerous attempts to "guess" codes.

- Programmable Form C Relay functions for schedules on manual control of CCTV, lighting, ambush function, alarm system, etc.

In other words, this is a powerful little entryset. Enough of this introductory stuff, lets get started!

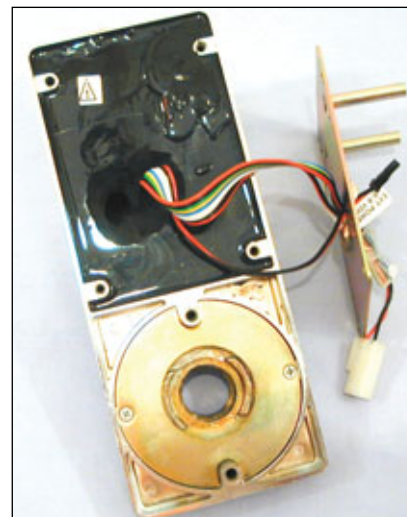
The door preparation for the PDL



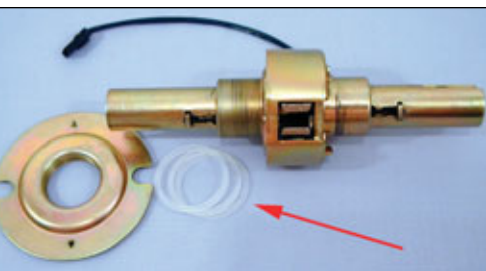
6. This is the inside housing assembly.



5. The inside rose has two large notches, used as a path for the motor drive wire.



7. A rubber type material waterproofs the electronics as well as the keypad.



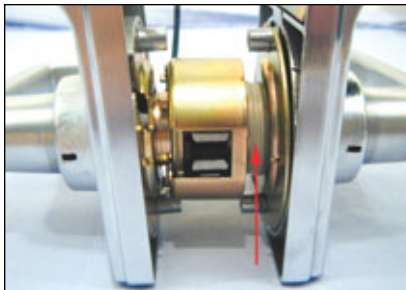
**8. Plastic spacing washers are used to adjust the lock for different door thickness.**

round plastic spacers. Three spacers are just right for a 1-3/4" door.

The spacers go between the lock body assembly and the outside rose plate. The rose plate is screwed into place until it touches the plastic spacers. There are two notches in the rose to allow for through bolting. If necessary, continue tightening the rose plate until the notches are at the 12 o'clock and 6 o'clock positions.

*Photograph 9*, shows how the assembled lock will look with the three spacers installed.

With the latch installed, the outside housing along with the lock body assembly can be slid into place.



**9. Here is what the spacers would look like installed.**



**10. The inside mounting plate serves two purposes. Two screws pass through it to secure the outside housing to the door and two smaller screws are used to attach the top of the inside housing.**



## Your best answer!

### Question:

**Who has 445 years of experience bringing customer satisfaction to the security industry?**

### Answer:

**Your SDI group of regional distributors who are the market leaders in their areas.**

Proud Members of



**Hans Johnsen Company**  
Dallas, TX  
Toll Free: 1-888-879-1500  
FAX: (214) 879-1530

**K-D-L Hardware Supply, Inc.**  
Seattle, WA  
Phone: (206) 682-7383  
Toll Free: 1-800-926-7716  
FAX: (206) 624-9305

**Jo-Van Distributors**  
Scarborough, Ontario  
Phone: (416) 752-7210  
Toll Free: 1-888-752-7210  
FAX: (416) 752-3845

**Doyle Security Products**  
Minneapolis, MN  
Phone: (612) 521-6226  
Toll Free: 1-800-33-DOYLE  
FAX: (612) 521-0166

**Robert Skeels and Co.**  
Compton, CA  
Phone: (310) 639-7240  
Toll Free: 1-800-734-4539  
FAX: (310) 639-7569

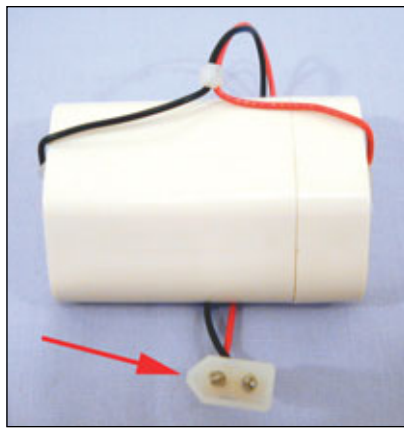
**Fried Brothers, Inc.**  
Philadelphia, PA  
Phone: (215) 627-3205  
Toll Free: 1-800-523-2924  
FAX: (215) 592-1255

SECURITY DISTRIBUTORS, INC., Dallas, TX

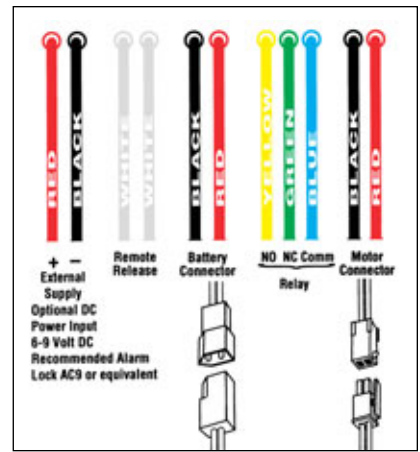




**11. Through-bolts, above and below the lever securely attach the lock to the door.**

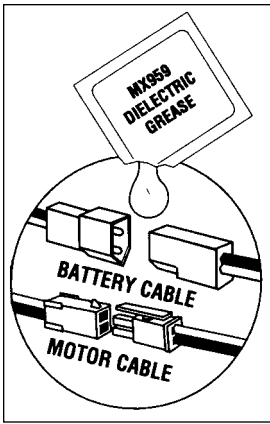


**15. The battery pack uses a typical MOLEX connector.**

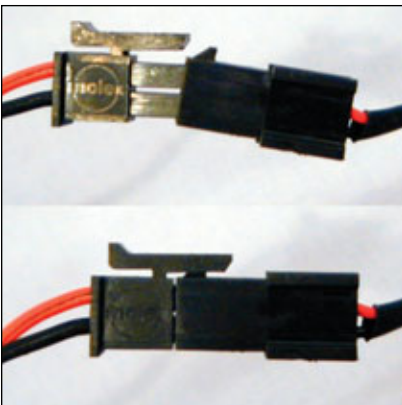


**17. Here is a chart showing the use of each wire associated with the lock.**

**12. A dielectric grease is added to the connectors before putting them together.**



**13. You will find the grease with the miscellaneous parts included with the lock.**



**14. The motor drive connector is held together with a latch.**



**16. Five AA batteries can be found inside the battery pack.**



**18. Two strikes are included. A standard 1-1/8" x 2-3/4" T strike and a 1-1/4" x 4-7/8". ASA strike.**

housing to the inside mounting plate. After tightening the side screws and the through-bolts, the inside lever can be slid into place. The only thing left is to connect the connectors and install the battery.

Both the battery connector and the motor drive connector should have a little dielectric grease added before the connectors are slid together. (See photograph 12.) The grease is included in the parts bag along with a lot of other good stuff. (See photograph 13.) What does the grease do? It keeps moisture out of the connector. No moisture means no corrosion and no connector failures.

The motor drive connector has a small latch that will lock the two pieces of the connector together. (See photograph 14.) The battery connector is of the standard Molex variety. (See photograph 15.) Don't worry, it won't come apart either when connected properly.

For those that are curious about this funny looking battery, don't



**19. The inside of the PDL 3000 after installation.**

worry. It is just a battery holder. When the screws are removed you will find five AA batteries. (See photograph 16.)

Cram the battery and connectors into the inside housing, install the battery cover and you are done with everything but the strike plate! What about those other wires? Well, here is a chart that explains how they can be used. (See photograph 17.)

As for the strike, there are two strikes supplied with the lock. (See photograph 18.) A standard 1-1/8" x



**20. Here is the outside after installation.**

2-3/4" T strike and a 1-1/4" x 4-7/8". ASA strike.

Photographs 19 and 20 show the finished installation. To just do enough programming to get the lock going, the keypad can be used. Users are easily added from the keypad. In fact, if you just key in the default master code (1-2-3-4-5-6) the lock will open.

As for all of the really cool stuff, that will come next month when I cover all of the different




**21. The PROX reader is located right below the keypad.**

programming methods including the computer software. Until then, have a nice day!

If you would like more information about any of the products offered by ALARM LOCK, give them a call at 1-800-ALA-LOCK (252-5625) or fax them a request at 613-789-3383. You can also visit their web site at [www.alarmlock.com](http://www.alarmlock.com). Circle number 324 on Rapid Reply.

**TTL**





## Weldable Gate Boxes

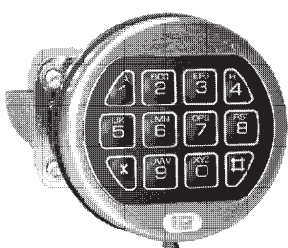
With more than eighty different models available, Keedex has a solution for your gate lock installation. Keedex Weldable Gate Boxes are available for cylindrical locks, deadbolts, mortise locks, push-button locks, lever locks, hotel locks, electric strikes and more. Call or write today for your free catalog.

**Keedex, Inc. • 12931 Shackelford Ln.  
Garden Grove, CA 92841-5108  
714-636-5657 • Fax: 714-636-5680  
e-mail: [box@keedex.com](mailto:box@keedex.com)  
[www.keedex.com](http://www.keedex.com)**

Circle 240 on Rapid Reply

## AUTHORIZED LAGARD



## DISTRIBUTOR

Order safe locks on our web site  
**[www.safe-locks.com](http://www.safe-locks.com)**

**MBA Tools & Training:  
THE RIGHT COMBINATION**

**Toll Free 1-888-MBA-5495 • Fax (859) 887-9491**

Circle 251 on Rapid Reply

March 2003 • 67



# A Tale of Two Gun Safes



by  
**Dale W. Libby,**  
**CMS**

**G**un safes, large and small are making inroads into residential homes. I have seen them in basements, crawl spaces, in closets and attics, and anywhere it is hard to access. One Friday I was called on to open two units at different ends of Illinois, both located in basements of houses and both easy to get to, for a change.

The first safe (A Browning) I had carte blanche on how to open and repair. The second safe was a 'stealth' safe opening where there could be no outward sign of safe penetration or drilling. This was a Liberty Safe and a divorce situation with wiretap overtones.

Safe number one was a Browning ProSteel model. The logo is shown in *photograph 1*. The safe dial and handle configuration is shown in *photograph 2*. The dial is located near the opening edge of the door, and the drop-opening handle is located in the center of the door. The location of the dial and handle shout out the handing of the lock.



**1. Browning ProSteel gun safe logo.**

The dial and ring being located close to the edge of the door means that the combination lock bolt had to be facing the opening handle. This means that the lock was mounted Horizontal Right (HR). The handle lever is attached to a large circular opening handle cam inside the door. I determined this by simple logic. I checked the GUN SAFE book by Dave McOmie and my suspicions were verified.

One of the important omissions in the McOmie book is to show the inside of the gun safe door before being removed. Sometimes there is a hole for the change key in the back of this door, and sometimes not. Because I did not want to pull

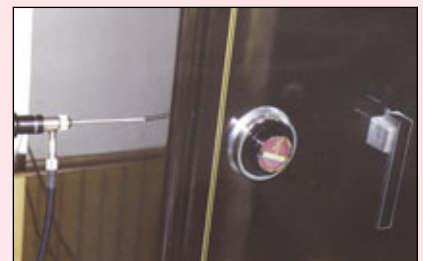


**2. Dial and handle configuration. Dial near opening side of door.**

this dial and drill for the drop in position, I choose to side drill and try to read the combination through the change keyhole.

*Photograph 3* shows my trophy shot of my Hawkeye short scope sticking through my drilled hole. I have the scope attached to a portable light source instead of the flashlight handle included with the scope. The location of the hole is 2-3/4 inch back from the face of the door and 1/2" above the dial centerline. The reason that I added the 1/2" above the dial ring is because that is where the change key hole is located when the lock is mounted HR (Horizontal Right).

Imagine my surprise when I looked through the scope and saw a pegboard backing on the inside of the door. This can be seen in *photograph 4*. I tried looking through the small hole in the board, but there were no holes located above the change keyhole. Hmmm. Peg board is flexible I thought. I removed the scope and inserted a flat bladed screwdriver through the drilled hole, angled it in just a little and pushed



**3. Access hole 2-3/4" back and 1/2" up from dial ring center. Lock is mounted Horizontal Right.**

the screwdriver under the lip of the pegboard and moved it up and down. This created a small pocket between the board and the edge of the door big enough to insert the borescope.

Minutes later I had the combination. In fact, the pegboard backing held my scope in place while I turned the dial looking for rivets, gates, and change key hubs. After removing the scope, I dialed the combination and opened the safe door.

In *photograph 5*, I have removed the pegboard backing to expose the combination lock. In this picture you might be able to see scratch marks along the side of the door next to the combination lock. This was from my screwdriver insertion and moving it up and down to create a pocket under the board next to the back of the safe. Also a locking bolt can be seen above the combination lock and the curved edge of the opening cam can be seen above the horizontal backing bar. Further disassembly of the door was not needed. If you want to see it, however, the McOmie GUN SAFE book shows it all disassembled.

The repair was quite simple. I used a 3/16" pop rivet with a back up ring. This fits a 1/4" hole quite well and looks great. The total time to open and repair this safe was just over 1 hour. This included the time to remove all the screws holding the pegboard and to reinstall it.



**4. Pegboard on back of safe door.**



**5. Pegboard removed showing lock placement and scratch marks.**

## What will you like about our new strike?

### New 6 Series Electric Strike

- Field selectable lock mode
- Field selectable voltage (AC/DC)
- Low profile
- Horizontal adjustability
- Plug-in wire connectors
- Built-in relationship and support

**Everything.**

Visit us at ISC West booth #60545

www.rutherfordcontrols.com  
1-800-899-5625 (U.S.A.)  
1-800-265-6630 (Canada)



**RCI**  
RUTHERFORD CONTROLS

In or Out...we make it Easy!

Circle 261 on Rapid Reply



...clearly the best.  
**800-327-8466**  
www.tektone.net

### Is The Lobby Door Closed?

Tenants always know — with our Door Ajar Apartment Stations



(open)



(closed)

Residents feel secure when their building is secure. Give them the apartment intercom station that lets them know it. Our Door Ajar Apartment Stations include a door release button that lights when the lobby door is open or ajar. Available in flush or surface mount.

Call 800-327-8466 for a complete catalog.

277 Industrial Park Road • Franklin, NC 28734  
4190 Fairview Street, Unit B-8 • Burlington, ON L7L 4Y8

Circle 268 on Rapid Reply



Most modern gun safes make it easy to determine how the lock is mounted on the door by the position of the dial and ring and the position of the opening handle. The second safe I worked on that afternoon was a Liberty Safe.

The dial and handle configuration is shown in *photograph 6*. The dial was located above the opening handle in the center of the door. The plastic center of the dial had been removed at this time. This classic configuration yells that the combination lock is mounted Vertical Down (VD). This was in fact the way the lock was mounted. Again, the McOmie Book confirmed this, but the book did not mention if there was an exposed change keyhole.

The situation with this safe was an ugly divorce. The husband was phone tapping the wife's conversations and had the tapes and the tapping equipment locked inside the safe. I had a conversation with the wife's lawyer (a friend of mine) and was told that she had the right to open the safe without the husband's knowledge and remove all tapes therein. He assured me that I was in no danger of a lawsuit from the husband.

The wife stated that I could not drill the safe, so the husband could see what I had done. She had a bunch of blank tapes to replace the recorded tapes, so when I was done, she wanted the husband not to know that the safe had been opened and the tapes replaced. Could I just pick it open? I tried to manipulate, but had no luck. I told her I could remove the fancy Liberty Dial and drill under it, and when done, you could not tell that the safe had been opened.

A couple of years ago I did an article on a set of 'stealth' dial pullers, one for S&G lock dials and the other for Mosler dials. To use the S&G puller, just remove the center plastic insert, drill three holes for the attaching screws on the inside of the dial ring, attach the holder and drill guide. Drill into the dial until you reach the dial spindle. Remove the drilling guide and attach the pulling guide. Turn in the screw and the dial smoothly pops off the end of the spindle. The drill attachment is shown in *photograph 7*. The attached handle holds the puller while drilling and removing the dial.



**6. Liberty Gun Safe, dial above handle in center of door.**



**7. Stealth S&G dial puller.**

After removing the dial and ring, I attached the mini-rig from StrongArm and drilled for drop-in at #72. There was hardplate, but it was no match for StrongArm drill bits. After opening the door I took a picture of the back of the inside of the safe door. There was no change key hole. In fact, this plate was metallic and attached to the back of the safe door like a Mercedes door panel is attached. There was a screw at the top and bottom of the large panel. Once the two screws were removed the panel had to be lifted up and pulled out to be detached. As it turned out, it was harder to attach the panel than to remove it. It was a three-handed job.

*Photograph 8*, shows the lock and relocker and how they are mounted. In this picture the handle has been turned and the bolt bar is in the unlocked position. There is an extension on the back cover that holds the relock in position. From the front of the safe, the relock is to the right of the lock.

The dial on this safe was equipped for a key lock. This means that instead of spline key channel being aligned at the usual #50 position as in older dial spindles, it was aligned at #43. I looked at this carefully when



**8. Inside metal panel with no change key hole.**



**9. Lock mounted Vertical Down with relocker. Lock drilled at drop-in.**

pulling the dial so I could put the dial back on and have the combination be the same as it was before I pulled the dial. After reassembling the dial and spindle, I fixed the hole and reinstalled the lock. In the meantime, the customer had found the original combination from the original directions in the safe. I tried it and it worked. That meant that I had installed the dial at #43 correctly. (And that the combination had not been changed!)

It was probably better that I attacked this lock under the dial than from the side. The panel was too hard to try and pry up to insert the scope. If I were to drill this door from the side, I would have drilled 2-1/2" back from the front of the safe door and drilled through the outside skin, and then drilled through the side of the door to access the lock cavity. By doing this I would avoid the back panel.

So, with the advent of gun safes being used in homes to lock up anything and everything, be prepared for opening a lot of these units. Choose your methods according to need, but side drilling is usually the easiest, with minimal repairs needed. Open Gun Safes and Prosper! **TNL**





Avery & Debbie Carter  
Owners of RBM Lock & Key,  
Chino Lock & Security,  
& Curley's Key Shop

Nick Bruno & Loyola Bowditch  
Clark Security Products

For 50 years, the cornerstone of Clark Security Products' business has been serving the locksmithing industry with above and beyond customer service. Because of that commitment, we have had the honor of developing long-standing relationships with our customers.

Richard Clark, the founder of Clark Security Products, and the Carters started one of those relationships two decades ago, a partnership that continues to this day. Avery and Debbie Carter are the owners of **RBM Lock & Key** in Ontario, California, **Chino Lock & Security** in Chino, California, and **Curley's Key Shop** in Pomona, California. Avery and Debbie have been shop owners for over 20 years, combining their skill and experience into growth opportunities, which have enabled them to continue to offer superior customer service to their customers. Avery is a first generation locksmith who went on to teach his father and brothers the trade by sharing his passion for learning about locksmithing. Debbie's tie to locksmithing goes back three generations. Her grandfather, Hobert Causey, started **Curley's Key Shop** in 1950, which her father, Carroll Causey, later bought. Avery and Debbie's son Brian now works with them, continuing the legacy that their family has created.

With all the changes over the past 50 years, our shared values remain the same, mutual respect, trust, making and keeping promises, and providing great customer service. Clark looks forward to creating and maintaining relationships with our customers like the Carters, generation after generation.

Chicago (800) 755-5625	Cincinnati (800) 659-5625	Denver (800) 282-5625	Houston (800) 483-5625	Anaheim (800) 889-5625	New England (800) 746-5625	Orlando (800) 669-5625
Phoenix (800) 775-5625	Sacramento (800) 245-3003	Salt Lake City (800) 453-6430	San Diego (800) 542-5625	Seattle (800) 942-5275	Washington D.C. (800) 578-5625	



# Beginner's Corner



By Ken Holmlund

## In the Toolbox, Part 2

As with any profession, there are some tools that are absolutely necessary. I will cover some of them in this article and work my way up to the more specialized tools in later articles. Again, I want to reiterate, the purpose of this series is not to compare brands of tools, but rather to introduce tools I have found to be helpful. The brand you chose to use is up to you.

One of the more expensive, but absolutely essential purchases you must make is a pinning kit. Every locksmith will be called upon to rekey locks of many brands, and although I do use some specialty kits like Best/Falcon, MEDECO and ASSA, I feel that a kit that will key most brands is better for the beginner.



**1. LAB EPK-003 pinning kit.**

When I was apprenticing in the early 1980's I was given a .005 kit and used it for several years. I might add here that by a .005 kit, I mean the pins are graduated in 5/1000 of an inch. The kit worked fine for most locks, but for the better quality cylinders I felt I needed something better so I purchased a .003 kit as seen in *photograph 1*.

I believe the .003 pin kit to be superior due to the fact that you have pins that are never more than 1/1000 inch from factory specs, whereas with the 5/1000 system you

will often be 2/1000 off. I chose the LAB WEDGE because I work out of my truck and the angled face made it easier to locate the pins. Since I purchased the kit, LAB has made a good change in that they now show the pin lengths inside the pockets as well as on the top. Many companies manufacture pinning kits, but once you choose which to use, stay with their pins. Don't mix brands of pins because there is a very slight difference in the physical makeup of each brand's pins and mixing them could cause you headaches.

Speaking of pins, you will need to have backup stock for several sizes. The sizes you will need most are dictated by the brand of locks that are most common in your area. In my area I find Weiser, Kwikset, Yale and Schlage to be the most common. I think a wise plan would be to observe the locks you see around you and note the lengths needed to service them. As time goes by, you may want to pick up more and more lengths for reserve and will eventually have them all.

Pins are not an expensive item, so I suggest having as many lengths in backup as you can afford. Some companies offer special packages for what they call refills and have good pricing on the packages. As I mentioned, I have chosen to use LAB pins and they are available in a vial. There is a rack for holding the



**2. LAB pins with rack.**



**3. HPC SUT-14 hollow followers.**

vials that I have found to be most useful. The important thing is to be able to keep them in order for ease of refilling the kit. You can see the vials and rack I use in *photograph 2*.

One of the most used tools in the locksmith arsenal is the plug follower. (See *photograph 3*.) Here again, many companies make followers and many are made for specialized usage, such as master



**4. Followers in truck.**

pin removal or adjustable diameters. My choice has been to have a set of hollow followers from HPC because they are light, easy to use, versatile, and I can store them standing up on nails in my counter top. (See *photograph 4*.)

**Continued on page 76**





*Keyed To Quality And Locked Into Service<sup>SM</sup>*

# TODAY'S LOCKSMITHS DEMAND...

**ULTRA**  
*Reliability*

**ULTRA**  
*Accuracy*

**ULTRA**  
*Versatility*



**Ilco**  
**The Delivers with...**  
**ULTRACODE<sup>®</sup>**  
*Electronic Code Machine*

- Stand Alone or PC Driven
- Cut Keys by Code or Duplication
- Works with Create-A-Key<sup>™</sup>... the most comprehensive key blank and code software available.

**ULTRA  
DEAL**

**See your Ilco distributor for an...  
ULTRA DEAL, which includes an ULTRACODE  
machine w/Power Inverter and Create-A-Key<sup>™</sup> software  
Hurry... Limited Time Offer!**

**Kaba Ilco Corp.**  
800-334-1381  
www.kaba-ilco.com



A Member of the KABA Group

Circle 238 on Rapid Reply



They also double as a home for my tweezers, pen and cap removal tool. They are used so frequently that ease of access is very important to me, so I keep them out where I can get to them without having to dig for them.

If you have a mobile service vehicle, it is imperative that you plan ahead to have a home for everything, or you will be picking things up all the time. Make it a habit to put things where they belong and you will save yourself time and frustration. I own and have used plug followers made to remove master pins, but I find it just as easy to do it by hand. Since they both take some practice to become proficient at the process, learn to do it by hand and you will always have the right size tool with you.

As long as we are discussing rekeying, let me throw out three other tools I have found helpful. (See photograph 5.) Tweezers are the first tool I will discuss. Tweezers are a very personal choice, often dictated by the size of your hand and your

grip strength. It is my experience that the smaller the tweezers, the more tension necessary to hold the pins in place. This is fine if you are only doing a couple of locks at a time, but if you are doing a couple of hundred in a day, I guarantee you your hand will get tired and cramp up on you. For that reason, I have chosen to use the longer style tweezers and have found the style with the notch cut in the end to hold the pin to be my favorite.



5. Tweezers, Tru-Arc spreader and Multi Tool.

I use the HPC PTT-4 as shown in photograph 5. A pair of tweezers is available with a wire attached to facilitate replacement of pins in the shell and it works well for that job, but I found the wire to be in the way and would not use it for my every day job tweezers.

The second tool in photograph 5 is a Tru-Arc ring spreader. You will need both a spreader and a compressor, and although the tool is available to do both, I found that I constantly had to change the function and it was a waste of time. The price difference between buying both types and just the one that does both is minimal. I would suggest buying two separate tools. These tools can be purchased from a locksmith distributors, or

local hardware store. One word of advice is, buy a good pair because the tips will wear out or bend quickly if you try to save a couple of dollars on a cheap pair.

The third tool in photograph 5 is a multi tool. It looks like something a dentist would use, but believe me, it will be one of your best friends in the field. This tool will have a many uses as any single tool in your kit. It is useful for removing stuck pins, removing knobs like Schlage, retrieving loose parts, and on and on and on. Just be sure you have a couple at the ready because you will use this tool.

The final tool I will cover this time will be the lowly shim. (See photograph 6.) Although it is just a rounded piece of steel with sharp edges that will cut you if you are not careful, the shim is necessary in our profession. The shim is used to open locks that may resist picking. I have found it to be most valuable where mortise and rim cylinders are involved, although most knob and deadbolt locks can also be shimmed opened. A little practice will help you appreciate the value of the shim. Shim holders are also available, but I have found that I can feel the pins better when I hold the shim in my fingers, so I have chosen to go that route.

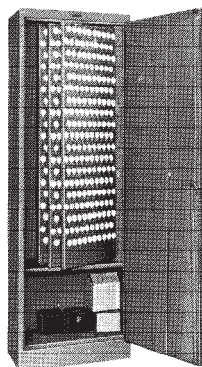


6. Shims and springs.

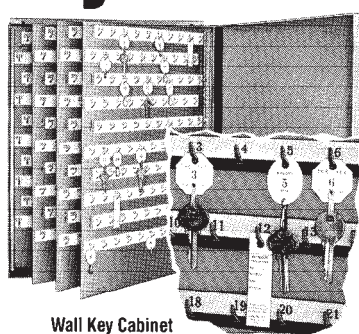
Also seen in photograph 6 is a package of springs. Be sure to have extra springs of several lengths in stock. Springs collapse and will have to be replaced, and although they probably don't qualify as a tool, you will need them.

That is it for this edition of *In The Tool Box*. I have many more tools to cover, and if you have a special request for a tool, please contact me at: Holmlund Lock And Key, 1612 Tompy St., Miles City, Montana, 59301. Or e-mail me at: [holmlund@midrivers.com](mailto:holmlund@midrivers.com). I would appreciate any input you would care to give. **TRL**

## Visible Key Control



Floor Key Cabinet  
760-2280 capacity



Wall Key Cabinet  
30-700 capacity



Drawer Key Cabinet  
1000-3312 capacity

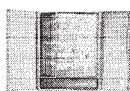


Table Cabinet  
700-1200 cap.



Badge Cabinet To  
168 badges



Portable Case  
56 capacity



Mini-Wall  
10-20 capacity



Key Tray  
56 cap.



Big Head Keys  
40-350 cap.

### Low-Cost, Simplified

- Visual inventory of keys and tags.
- Plastic color tags available for color coding areas.
- Illustrated instructions for easy installation.
- Single or dual tag systems.
- Improves security, reduces key loss.
- Choose from 75 standard cabinets in our 16-page catalog.

**LUND**

EQUIPMENT CO., INC. Dept. NL

P.O. Box 213, Bath, Ohio 44210

Cleveland Tel. 330/659-4800

Key systems for over 60 years

FAX 330/659-9347



# WE WANT YOU!

**FREE!**  
When you join NSO!

**Dave McOmie on Safe Locks** has almost 300 pages of information, photographs and illustrations. **A \$110.00 value FREE!**



**Sign Up Today**  
in our Online Store!  
[TheNationalLocksmith.com](http://TheNationalLocksmith.com)



**FREE!**  
When you join NLAA!

**FREE**  
Car  
Software!

The **Automotive Edge™** is detailed car software offering over 1,000 pages of information on foreign and domestic car service. Loaded with hundreds of photos, step-by-step opening and service procedures! **A \$149.95 value FREE!**

## JOIN THE NATIONAL SAFEMAN'S ORGANIZATION™!

To make big profits in safe work with no hassles...  
You need information!

Together, The National Locksmith® and expert Dave McOmie operate the National Safeman's Organization (NSO). With over 1600 members globally, the NSO is the largest group of its kind in the world!

Your NSO membership delivers to your door a wealth of information and instructions on how to change combinations, perform safe service and respond to lockouts. The NSO will help you build profits in this field. We'll give you the know-how you need!

Here's what you get when you join the NSO...

- One year membership in the NSO.
  - Frameable, personalized Membership Certificate.
  - Photo ID Card.
  - \$10,000 NSO Membership Bond for safe work.
  - BIG discounts off safe manuals.
  - 50+ page quarterly newsletter, The National Safeman, packed with drill points and service procedures.
  - Bi-monthly technical bulletins to make openings a snap
- PLUS...A FREE copy of Dave on Safe Locks. A \$110 value FREE!**



## JOIN THE NATIONAL LOCKSMITH AUTOMOBILE ASSOCIATION™!

Here's what you get when you join the NLAA...

- One year membership in the National Locksmith Automobile Association™ (NLAA).
- Frameable Membership Certificate.
- NLAA Photo ID Card.
- \$10,000 NLAA Membership Bond for automotive work.

- Every member receives a subscription to the NLAA monthly newsletter, packed with page after page of foreign and domestic auto service/opening details, from domestic to foreign and high security.

**PLUS...A FREE copy of The Automotive Edge™ Software containing over 1,000 pages on foreign and domestic cars, on one CD ROM. A \$149.95 value FREE!**

### PLEASE CHECK THE APPROPRIATE BOXES

- ☐ **YES, Sign me up as a member of the NSO and send me Dave McOmie on Safe Locks, FREE!**
- ☐ Member Dues \$125  
☐ Member Dues Outside US \$150 in US funds
- ☐ **YES, Sign me up as a member of the NLAA and send me FREE the Automotive Edge Software.**
- ☐ Member Dues \$125  
☐ Member Dues Outside US \$150 in US funds

**Copy or clip this coupon and send with payment to:**  
The National Locksmith • P.O. Box 77-97592 • Chicago, IL 60678-7592

Select payment method: ☐ Check ☐ VISA ☐ MasterCard  
☐ Discover ☐ American Express ☐ Money Order

Card Number \_\_\_\_\_ Expiration Date \_\_\_\_\_

Signature (required) \_\_\_\_\_

Name \_\_\_\_\_

Shop Name \_\_\_\_\_

Address (no P.O. Boxes) \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_

Zip Code \_\_\_\_\_ Phone \_\_\_\_\_



# The Lighter Side

## The Customer's Always Right?



by Sara Probasco

**“W**ell, that beats all,” one of the locksmiths said.

“What?” I asked.

“I answered this guy’s call to get his keys out of the trunk of his vehicle, and wound up making him mad, just because I didn’t approach it the way he thought I should.”

Comments such as this always pique my interest, so I gave him my full attention.

“When I got there, I could see the trunk was open, about an inch or so,” he continued.

“That’s kind of strange, don’t you think?” I asked.

“It seemed that way to me, too, but when I tried to raise the lid, it wouldn’t budge.

“Some kind of spring hinge, or something?” I asked.

“Nope. I peeked in through the crack and saw the truck was crammed full of junk, and the lid was tied down tight against everything with a piece of small rope. I just pulled out my pocket knife and cut it loose, and the lid popped right up. Then I reached in and handed him his keys.”

“Great. So, what was the problem?”

“I don’t have a clue. I just know the customer’s blood pressure climbed a couple of notches, and he started hollering at me for cutting his rope. You woulda thought it was something special, the way he carried on,” the locksmith said.

“So, what did you do?” I asked.

“Well, I apologized, said I was just looking for the quickest, easiest way to get his keys for him, and that he should have told me, if he didn’t want the rope cut. He said ‘I thought you had some kind of tool to reach inside and get my keys out of there. How was I to know you were going

to cut my rope?’ So I gave him a piece of rope out of the van and helped him tie it down again.”

“Did you get paid?”

“Oh yeah, but he wasn’t happy about it.”

You might chalk that one up to the full moon. But it wasn’t the only strange happening, that day. Not by a long shot.

That afternoon, a couple of teenagers wandered into the store looking for padlocks. After examining this one and that, they decided upon an American lock with colored aluminum case.

“What color do you want?” the locksmith asked. He pointed to the choices on the display samples, hanging on the wall.

“Purple,” one of the guys said.

“Yeah, purple,” the other echoed.

The locksmith patiently mentioned that they were only available in the colors shown—red, blue, gold, green, and brown.

The youngsters insisted only purple would do.

Jokingly, the locksmith suggested that one might take red and the other blue, as red and blue combine to make purple.

“Just think,” he told them, “It could be your own little secret. Everybody else will think they’re just red and blue padlocks, but you two will know that, together, they are really purple—maybe even the only two purple padlocks in the whole world.” He thought they knew he was pulling their legs, but the two guys looked at each other and grinned.

“Hey, yeah!” They said. “Cool, man!” And they bought one red and one blue padlock, keyed alike.

I guess they were happy with their purchase. At least they left the store smiling.

The crazy-customer events weren’t over. Later in the day we got a lockout call from across town. The lady said she had left her only set of keys inside her vehicle on purpose, as the dealer had given her a “credit card” key to carry in her purse, for emergencies. However, she added rather impatiently, she had tried and tried, but for the life of her, she couldn’t figure out how to use it properly.

When the locksmith arrived on the scene, the lady wasn’t around. He had gotten enough details over the phone to clearly identify the vehicle, so he set about getting it open for her.

She finally walked up and said, “Now, I want you to show me how this little credit card thing works, so I won’t get in this fix again. From her purse, she pulled a plastic card—the kind sometimes given by dealers, with two emergency key cut-outs molded into the central part. Holding the card in one hand, she circled her vehicle.

The locksmith watched, puzzled, while she examined every groove and crevice around the windows and doors, apparently trying to find some place to insert the entire card. “I know most of the hotels have gone to this kind of plastic key with their new-fangled electronic locks, but there’s just not any place on the car I can see that this will fit,” she said, obviously frustrated. “Do you suppose my car is defective?”

Imagine her surprise, when the locksmith carefully bent one of the plastic keys away from the frame and inserted it into the lock, and opened the door for her.

Back at the store, just a few minutes before closing time, a different lady called to see if someone could come get her into her house. Somehow, she had

managed to lock her keys inside, and supper was cooking on the stove.

"How much do you charge?" she asked.

"Thirty-five dollars, plus tax, if I come right now," Don said.

"Oh, my, I can't pay that much."

"I'm sorry, but that's our standard price to open a building," Don said. "Do you want me to come?"

"Well, I don't know. I'll have to think about it," she replied.

"The price goes up, after five-thirty," Don advised. "It's five-fifteen now, so you'll want to decide right away."

"How much is it, after five-thirty?" she asked, as if hoping it might be less.

"Fifty-five dollars from the time the store closes until eleven, then seventy-five from eleven until seven in the morning," he answered.

"My goodness," she said. "I guess I'll just break a window out. It'll be cheaper."

We didn't hear from her again that evening, but the next day, a handyman we know dropped by the store to thank us for sending the woman's business his way.

"I guess she broke out a window?" Don asked. "What did it cost her for you to repair it?"

"We haven't gotten it fixed, yet, but it's going to be around ninety-five dollars," he said with a smile. "The one she broke was one of those thermal-pane jobs, and we had to special-order it."

I must admit, not all the foul-ups and strange happenings around our store are customer-oriented. From my office, one day, I heard a customer come in to have a key duplicated. One of the locksmiths took her key, found the proper blank, stamped it with our ID imprint and said, "That'll be a dollar forty-five."

The lady took the key from him and examined it for a moment. Then she asked, softly, "How much would it cost, if you cut the key?"

TRN

SCHLAGE • WEISER • ARROW • CAL-ROYAL • KWIKSET • DEXTER

**ONE CALL WILL GET YOU THIS AND MORE!!**

**1-800-848-1577**

**SCHLAGE** **DEXTER**  
by SCHLAGE

**VON DUPRIN** **LCN**

**IR Security & Safety®**

**Locknetics**  
On Board

**MONARCH**  
Exit Devices & Door Hardware

AVAILABLE AT:

**ZIPF LOCK COMPANY**

P.O. BOX 935 COLUMBUS, OHIO 43223

1-800-848-1577 (Nationwide) 1-800-228-6320 ZipFAX®

CHICAGO • NATIONAL CABINET • TIMBERLINE • DETEX • HPC

• LCN • VON DUPRIN • FORT • LAB • MONARCH • MASTER • YALE • LOCKNETICS • DON-JO • ILCO • HES • ESP • PRO-LOK • ASSA •

Why have the key manufacturers' name on your key blanks when it's your company name you want your customers to see.

The Personalized  
Neuter Bow  
From Kustom Key.

It makes  
good sense.



Available in over 500  
quality keyways.

Call today for  
information and factory  
direct orders.

**1-800-537-5397**



Kustom Key, Inc.  
1010 Aviation Dr.  
Lake Havasu City, AZ  
86404

**WWW.KUSTOMKEY.COM**

**The Choice of Locksmith  
Professionals Nationwide**



# BUSINESS BRIEFS

## **SAFLOK's MT™ Lock Achieves Prestigious Certification**

Saflok's MT™ lock has achieved compliance with the American National Standard Institute (ANSI) Builders Hardware Manufacturers Association (BHMA) A156.25-2002 American National Standard for Electrified Locking Devices. The MT is the only electronic lock to date to have been certified by an approved third party lab to be in compliance with the industry standard for electronic locking devices.

SAFLOK's MT lock has the ability to work with existing access management systems that use magnetic stripe, smart card or memory card technology. The lock uses non-volatile FLASH memory, which enables recording of up to 5900 entries as well as addition of new features while the lock is housed in the door. The MT lock is available with optional automatic deadbolt (ADB™) and mechanical key override.

For more information contact SAFLOK at: 248-680-8484, E-mail: [kalistech@saflok.com](mailto:kalistech@saflok.com).

## **Bianchi USA**

Bianchi USA, Inc. has launched a website at: [www.bianchi1770usa.com](http://www.bianchi1770usa.com). The site includes product information, the rich history and tradition of the Bianchi family, ordering information and a profile of the Bianchi USA division. The site will be updated and enhanced on a regular basis, so check back often.

## **FKI Security Group Forms FKI Security Group Locksmith Council**

FKI Security Group (formerly Fire King International) has formed its first FKI Security Locksmith Council to advise the company on overall industry demand, trends, and product development, among other priorities, laying groundwork for an expanded Service Partner Network. Council

members have agreed to serve a two-year term and participate in several regular meetings designed to track market needs, particularly in the areas of product innovation, customer service and technical support on all product lines, including Meilink® safes, Gary® safes, and NKL® cash handling systems.



The six-member locksmith council will look to enhance and refine procedural approaches to repair, technical support tips, peer-to-peer expertise, and pricing guidelines for the company's Service Partner Network.

## **Investors Buy Schwab Corp**

Schwab Corp., an Indiana company, is pleased to announce that the company has been acquired by two private investors, Donald J. Ehrlich and Steven W. Norfleet of Lafayette, Indiana.

Commenting on the acquisition, Schwab President Jerry Ehrlich stated, "We have recapitalized the company to allow it to embark on a new period of growth. We will focus our efforts on new product development, increasing the performance of on-time delivery, and making changes in the manufacturing process to incorporate more contemporary machines and procedures. We are very excited about the future of the Company and look forward to combining new ideas with a very experienced and devoted workforce."

## **A1 Consolidates Somerset**

A1 Security has consolidated the operations of Somerset Security Manufacturing into its expanded facilities in Richmond, Virginia. As part of

its expansion, A1 has expanded the Somerset line of high security key blanks including: Original-GM logo VATS, and transponders for GM, Chrysler, Ford and Toyota. The company plans to introduce additional transponder blanks in the near future.

## **IRS&S Awards Club Car Vehicle to American University**

IR Security & Safety presented a Club Car Security Vehicle to the American University, Washington, D.C. The vehicle was the grand prize in a contest held at the IRS&S booth during the ASIS (American Society for Industrial Security) show at the Philadelphia Convention Center, September 10<sup>th</sup> thru 12<sup>th</sup>. Jeffrey Ryder was the winner of the drawing.



Shown at the presentation are (L to R): Randy Jump, Beverly Vigue, Colleen Carson, Jeffery Ryder and Craig Scanlon.

The contest incorporated IR's Dual Citizenship initiative, which seeks out synergies and integrating capabilities that cooperation between IR sectors to offer comprehensive, total solutions to the company's customers.

## **Updated Standard for Auxiliary Hardware**

The Builders Hardware Manufacturers Association (BHMA) newly revised and updated ANSI/BHMA A156.16-2002 American National Standard for Auxiliary Hardware. This standard is dedicated to products such as doorstops, door holders, doorknockers, garment hooks, shelf brackets, shower curtain and rod assemblies, towel bars

and many more. About 21 different kinds of auxiliary hardware products are defined by this standard, and performance-testing methods and criteria are given for each product.

Several different types of each product are identified by the standard. Just for doorstops, for example, more than 20 different types of doorstops are identified using illustrations of typical doorstop products. As a result, this standard includes more than 90 illustrations of typical products.

The ANSI/BHMA A156.16 standard is an indispensable reference for architects, specifiers and contractors. Once an auxiliary hardware product is correctly specified in accordance with this standard, specific brands of products can be chosen from the catalogs of Builders Hardware Manufacturers without compromising quality. Owners of commercial, institutional and industrial facilities can protect themselves against inferior workmanship by demanding products that perform in accordance with this industry approved standard.

## **BHMA Names New Officers for Two Year Term**

Builders Hardware Manufacturers Association (BHMA) announces that Paul T. Kosakowski, AHC, President and CEO of DORMA Group North America has been elected to a two-year term as president of the Builders Hardware Manufacturers Association (BHMA). The term will conclude at BHMA's Annual Meeting in Fall 2004.

In addition, Scott Duncan of IR Security & Safety was named first vice president; Anthony Mudford of Detex Corporation was named second vice president; and Helen Rose of Lorient North America was named third vice president. The association's four elected officers also serve as members of its board of directors. **INL**

# TECHNTIPS

## YEAR-END PRIZES



### **Grand Prize**

Silca Bravo Duplicator



### **1st Prize**

HPC's 1200PCH  
Punch Machine



### **2nd Prize**

Mas Hamilton's  
PowerLever 2000



### **3rd Prize**

SDC Magnetic Lock,  
Keypad and Exit Switch



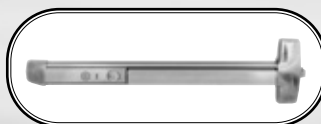
### **4th Prize**

Securitron 12-Volt Unlatch Plug in  
Trans & Touchpad Retail Value \$650



### **5th Prize**

LaGard "SmartGard"



### **6th Prize**

Detex Advantex



### **7th Prize**

Arrow 400 Series Alarmed  
Exit Device & S-75 Mounting  
Plate Kit for Narrow Stile  
Aluminum Doors



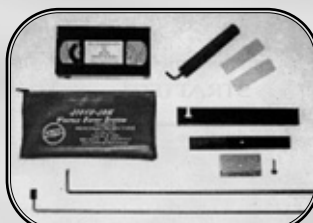
### **8th Prize**

\$500 in ASP Auto Locks



### **9th Prize**

\$500 in Strattec Auto Products



### **10th Prize**

Tech-Train "Jiffy Jack"



### **11th Prize**

Sargent & Greenleaf 6120  
Electronic Safe Lock



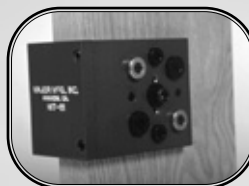
### **12th Prize**

High Tech Tools  
2000 Pro Set



### **13th Prize**

ESP Products Sampler



### **14th Prize**

Major Manufacturing's  
HIT-111 Drill Guide



### **15th Prize**

Abus Padlock's Marine  
Padlock Display (\$120 Retail)





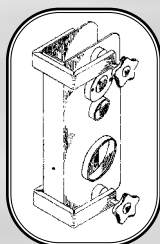
**16th Prize**  
MBA USA, Inc.  
Falle Pick Set



**17th Prize**  
Baxter JV-1 & JV-5  
Code Books



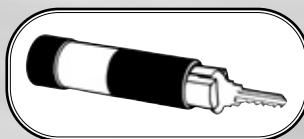
**18th Prize**  
Sieveking Products  
Squeeze Play



**19th Prize**  
A-1 Security  
Manufacturing  
Installation Jig



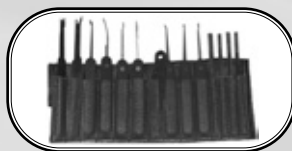
**20th Prize**  
Keedex Sampler



**21st Prize**  
Framon  
Impressioning  
Handle



**22nd Prize**  
Gator Tool Multi-Purpose  
Facecap Tool



**23rd Prize**  
Peterson Picks,  
by Peterson Manufacturing

## These Prizes Awarded Each Month!

- Wedgeco™  
Key Extractor  
Kit
- Keedex "SPIN  
OUT"  
Screwdriver
- Strattec  
Racing Jacket
- Tech Train  
Training Video
- HPC Air  
Wedge™
- Sieveking  
Products  
Gm E-Z Wheel  
Puller
- Sargent And  
Greenleaf  
4400 Series Safe  
Deposit Box  
Lock
- Major  
Manufacturing  
Products
- A-1 Security  
Products
- Jet Key Blanks  
(100 Blanks)
- ILCO Key  
Blanks (100  
Blanks)
- High Tech  
Tools
- LG Combo

### Send in your tips, and win!

#### How To Enter

Send a tip on how to do any aspect of locksmithing. Certainly, you have a favorite way of doing something that you would like to share with other locksmiths. Write your tip down and send it to:

Jake Jakubowski, Technitips Editor,  
**The National Locksmith**  
1533 Burgundy Parkway  
Streamwood, IL 60107-1861

Or send your tips via  
E-mail to: Natlock@aol.com

#### Rules & Regulations

Each tip submitted must include your full name, street address (no P.O. Box numbers), city, state, zip code, phone number, fax number and e-mail address. **When sending tips via e-mail make sure to include complete address and phone.**

#### Every Tip Published Wins

If your tip is published you will win one of the monthly prizes listed. At the end of the year, we choose winners from all the monthly tips published, that will be awarded one of the fabulous year end prizes. All you have to do to win is enter.

Prizes are arranged according to suggested retail price value.

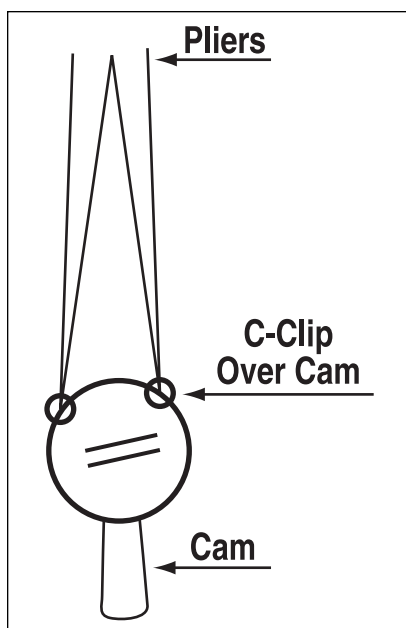
**Tips Start  
on Next Page**



**JET KEY BLANKS  
WINNER:  
Quick Clip  
Removal Trick**

Many Years ago while master keying a church building with Sargent locks, I broke three E-clips that I tried to remove from the cylinders. After a little experimentation, I found a way to remove those clips that worked very well for me.

First, I bought a pair of good quality needle nose pliers.



**Illustration A.**

Then I place the cylinder (bible down) on a padded surface. Then using the pliers, I put one leg against each end of the clip and gently force the clip off the back of the plug. (See illustration A.) I put equal amounts of pressure (or as near as possible) on each side of the clip so that I can remove it without damage.

This method does not seem to distort the clips anymore than pushing it on with a pair of pliers or other tool would.

*Marv Walker  
Idaho*



**WEDGE CO KEY  
EXTRACTOR WINNER:  
GM 6-Pin Spring  
Retainer Tip**

I don't know how many times I've tried to remove a GM 6-cut spring retainer, when part of it breaks off, and it's nearly impossible to get the broken part out without damaging the lock. While working on a 1994 Buick LeSabre

## A Few Words From Jake...

One of my gifts this past Christmas was a new HP scanner. The thing can scan photographic negatives and produce a "positive" in the photo-editing program that came with the scanner! It can also do the same thing with "slides", although I haven't tried that yet. Personal computer technology is surging ahead so quickly, that some newer, faster, prettier, cheaper device we buy today is quickly obsolesced, by something even newer, faster, prettier, and often cheaper than the latest gizmo we just purchased.

The exciting corollary to that is this: We haven't seen anything yet! The best is yet to come. PC technology has made enormous strides in the last five years, but in the scheme of things, those "strides" are nothing more than a few tottering baby steps of an infant industry that is just beginning to learn how to walk!

Locksmithing, is undergoing rapid and revolutionary changes, as well. Maybe not quite as quickly as computers; but changes nonetheless. Electro-mechanical, electro-magnetic, biometric and prox locks have made their debut. As in the computer and automotive industries, these new systems are rapidly changing for the better. And they're quickly usurping mechanical locks as the locks of choice among the residential, institutional, commercial and industrial user.

All of this change presents each of us with unique challenges and opportunities. They challenge us to grow and learn new techniques, procedures and concepts. They give us opportunities (if we're willing to stretch just a little) to make more money with higher profit items.

Today, we as locksmiths are faced with a truly awesome challenge brought on by the evolution of technology. That challenge is to grow, or struggle! Harsh words? Not really. Because if we do not take the responsibility of meeting new challenges and adopting new ways of doing business, were not going to have any business to do.

See y'all next month.



**by Jake  
Jakubowski**

with a VATS ignition, I came up with this little trick.

The VATS key wouldn't work in the ignition, so rekeying was probably all I needed to do. Unfortunately, one tab of the spring retainer broke while removing, and I didn't have a replacement VATS ignition, so I had to be careful not to damage the lock.



**Photograph 1.**

I purposely left the broken part of the spring retainer in place and rekeyed the lock. When it was time to install the spring retainer, I filed one side of a new spring retainer to a

"V". (See photograph 1). With a small flat screwdriver, I opened the slot containing the broken tab a little bigger to accept the side of the spring retainer with the filed "V".

Because of forcing the spring retainer to seat, the chamber next to it was slightly distorted. I left that chamber empty to prevent operational problems for the customer.

I did stake the spring retainer down and it worked great. I've since used this method several times without problems.

*Dave Gonelli  
Idaho*



**STRATTEC WINNER:  
Transponder Key  
Tip**

I have found through experience, that most people who have a vehicle equipped with a transponder-based immobilizer system do not know, or understand what it is that they have. So I tell them.



Better yet, I show them. I keep one of those clear-headed Ford keys with the visible capsule near me. When I show and tell, I'll point out the windings and explain it is a little antenna, and that a two-way communication takes place between the car's computer and the key, to determine that the correct key is being used.

Seeing, is believing. I "show and tell" people even when they don't ask, or whether or not I am even working on their car. The subject just seems to crop up on occasion.

Keeping one of these keys handy is a little thing that I do to try to educate the public, and to plant my little seed. It seems those who do know that they have a "special key" have been told the dealer is their only option for keys. By showing them my demo key, I enlighten them whenever I have a chance.

*Robert Pulley, CPL  
Illinois*

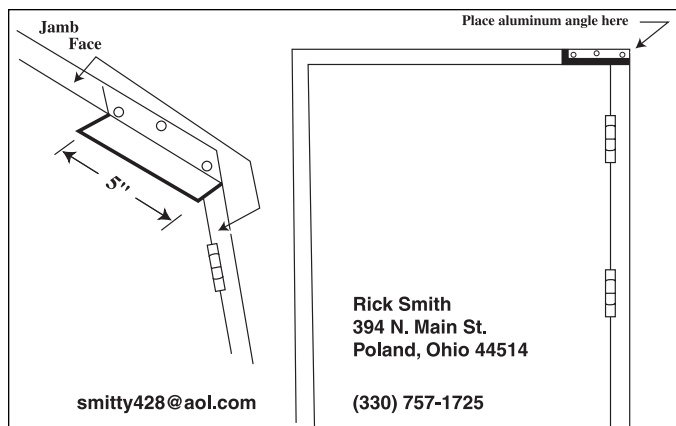


**HPC WINNER:  
Door Saver Tip**

Being a locksmith in an institution, I see many ways of holding a door open when it has a non-hold open door closer installed on it.

Mop handles are the biggest culprits when it comes to bent, misaligned, twisted doors and wracked, bent and torn out hinges. Seems like folks simply want to jamb that mop handle between the door's edge and the top corner of the doorjamb. Bad move.

This practice occasionally requires me to replace the door. If the top hinge is just bent and not torn completely out of the door, I can use my Hinge Doctor to realign the top (and sometimes the center) hinge. Otherwise, major repairs are in order.



**Illustration B.**

To deter the use of mop handles, and whatever else is handy, from being used as wedges to hold the door open, I cut a 5" length of 1-3/4" x 1-3/4" aluminum angle; and install it on the corner of the jamb, just above the hinge. (*See illustration B.*)

The bottom lip of the angle interferes with the easy placement of a mop handle. This causes the cleaning personnel to use something else at the bottom of the door where it is less likely to do damage.

I have, in some cases used 2" x 2" angle. The larger angle makes it even harder for the mop to be placed where it can hold the door open.

*Rick Smith  
Ohio*



**SARGENT AND  
GREENLEAF  
WINNER:  
Best-style Pinning  
Tips**

Jake, I was asked the other day about ways on how an industrial locksmith could increase production and accuracy when combining IC cores, and I thought I would pass my thoughts along to you as well.

There are four things we have learned over the years in our busy shop to increase production without sacrificing accuracy:

1. We have changed our pin kits from a horizontal box type to a homemade vertical one (Best equivalent is part # CD433 for those of us lucky enough to be able to order directly from Best) with three rows of 10 scoop type bins labeled as follows:

1st row (top row): 1A, 2A, 3A, 4A, 5A, 6A, 7A, 8A, 9A, 0A

2nd row: Spare, 2B, 3B, 4B, 5B, 6B, 7B, 8B, 9B, 10B

3rd row: 11B, 12B, 13B, 14B, 15B, 16B, 17B, 18B, 19B, spare

2. Teach yourself to combine two cores at one time (if they have the same mass equation). There will be a temporary slowdown due to the learning curve, but if you persist the results are definitely worth it for serious combiners. It's



**QUALITY  
MANUFACTURED  
RESIDENTIAL  
LOCKSETS  
at  
UNBEATABLE  
PRICES!**



**DESIGNED TO MEET  
THE QUALITY  
STANDARDS  
EXPECTED BY  
LOCKSMITH  
PROFESSIONALS  
NATIONWIDE!**

**CALL  
TODAY  
FOR  
DETAILS!**

**1-800-537-5397**

**K A Product of  
Kustom Key, Inc.**

AVAILABLE NATIONALLY FROM  
YOUR LOCKSMITH DISTRIBUTOR



## A1 BULLS EYE

Finally —  
an installation jig that uses  
conventional hole saws.

### Bulls Eye Installation Tool for Cylindrical Locksets

Equipped to  
drill 1-1/2"  
and 2-1/8"  
cross bores  
and includes an automatic  
backset adjustment that  
requires no additional  
tools. #BUL-2



#BUL-1

### Cabinet Lock Installation Jig

BullsEye installation for cabinet locks, including I/Core. Manufactured of aircraft grade aluminum alloy, and steel bushings, this jig is designed to install two styles of cabinet locks.

Includes two bushings:  
to accommodate 3/4" and 1-1/8" – 1-1/4" camlocks.

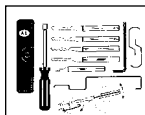
just as easy to pick up two pins at a time as one.

You may have trouble with 3's and 4's unless the top of your chambers have been reamed out prior to loading. This trick I learned from a "Top" Best combinator a year ago (a Chinese lady named Lily).

3. I play Baroque music in the background and have found that of all the types of music I have listened to, I make the fewest number of combining errors (almost zero) when this is playing. I learned this trick years ago from reading a book called "Super Learning". I believe it has something to do with the "tempo" or beat of the music.

4. Make a game out of whatever job you happen to be doing! If your "record" for combining cores yesterday was 96, see if you can make it 97 today and 98 or more tomorrow. Always challenge yourself to do better the next time. And remember, if you find a job you really like, you will never work another day in your life. I've reached that point as you may have guessed!

*Doug Olenick  
Canada*



### A-1 SECURITY PRODUCTS WINNER: Key Blank Marking

I am currently a locksmith student with Foley-Belsaw. During one of my lessons on re-pinning and re-keying pin

tumbler locks, I came across a quick and accurate way to mark a key blank for filing.

I use a fine line Sanford Sharpie permanent marking pen (black) to mark the key blank for filing. I have found that the Sharpie affords the locksmith a perfect dead-center mark on virtually any key blank. The barrel on the fine line pen is just the right circumference and length to fit into the pin holes of the lock's cylinder without marring or scratching it, and the permanent ink does not smudge or rub off. In addition, the tip of the fine line pen is small enough to make legible mark on pins, so now you can number each pin as they are removed from the cylinder.

I came across this tip when I couldn't locate my scratch awl and needed to finish my lesson. I have found this method to be fool proof and have used it on all of the re-pinning jobs that I have preformed.

Try it yourself and you will find that you will not want to be without a fine tipped Sanford Sharpie.

*Michael Young  
Michigan*

Editor's Note: Michael, thanks for the tip. I've often said over the years that every locksmith, young, old, new or experienced can find ways of doing something a little better, a little faster or a little easier. You just proved my point. Thanks. I know as you grow in your business, you will probably find even newer and better ways to mark your blanks for filing—don't hesitate to share them with us.



ILCO KEYBLANKS  
WINNER:  
**Floss It**

Here's a wonderful new use for waxed dental floss!

Have you ever dropped a pawl retainer or an E-clip into a door cavity while trying to finish a door cylinder on a vehicle? Here's what I do to save my knuckles and keep my blood pressure down.

I carry waxed dental floss in my tool kit. When I have a retainer or a clip that I think might give me a problem, I tie a length of dental floss to it and tie the other end around my finger or to something on the door panel.

That way, if I do drop the clip or retainer, all I have to do is pull on the



dental floss, retrieve the clip and try again. Sure takes a lot of aggravation out of the job.

Once I have the retainer or clip properly seated, I simply cut the dental floss and pull it off the clip. This allows it to slide off very easily.

*Frank Kitchen  
Indiana*



**KEDEX WINNER:  
Using a Cordless Drill  
to Check EAC Device**

I'm an institutional locksmith at a Southern Ohio prison, and have to service many electro-mechanical locks, and strikes.

Whenever I have to inspect a device, I can check the limit switches and power supply with my multi-meter. However, to check the motor or solenoid I have to take that part of the device, or the device itself to my shop and put it on my DC converter. All of the devices are 24VDC.

One day, I noticed that my Bosch cordless drill was also 24VDC, which gave me an idea when it came to servicing motors or solenoids. I put alligator clips on either end of two, 4' long by 14-gauge wires. I clip one end to my drill battery and the other end to the motor or solenoid. I now have a portable tester that works very, very well and

saves me a lot of time and trouble.

The amperage from the battery is enough to operate the large 1051 or 51 series detention locks—and have plenty of oomph for the small solenoids, which are only rated for .3 amps.

Plus, I am only testing the unit's operation once or twice and not trying to run them for an extended period of time.

*Paul W. Hawk  
Ohio*



**TECH TRAIN  
TRAINING VIDEO  
WINNER:  
Long Reach Tool Aid**

Here's a very simple replacement for that lost or damaged plastic tool sleeve when using the long reach tools. Find an empty clear plastic 1/2 or 1-gallon milk jug. Cut a side panel out of it and trim to the outline shown in *illustration C*.

Final size will be around 8" x 4". Cut a 1" hole as shown in center and then fold in half. Insert long reach tool through hole and it's ready to use. It does a great job of protecting the paint or glass and is still pliable in cold weather. Only takes a few minutes to make.

*Art Wertz  
Idaho*



**SIEVEKING  
PRODUCTS GM E-Z  
WHEEL PULLER  
WINNER:  
Duplicating Worn  
Nissan Keys**

This has to do with making keys for Nissan's, and was



WWW.DEMANDA1.COM

**COMPLETE MORTISE LOCK & CROSSHOLE  
INSTALLATION  
SYSTEM**

**INSTALLATION KIT**

Use to mortise both the lock pocket & the faceplate pocket.

**Mortise Lock & Crosshole Installation Kit**

The only mortiser offering a complete system. Mortise the lock pocket, the faceplate pocket, and drill cross holes. The M-100 is self-centering and accepts door thickness up to 2-1/2". Selective backset - 2-3/8", 2-1/2" and 2-3/4". Choose from accessory sideplates for Arrow, Marks, Baldwin, Schlage, Simplex/ Unican, Corbin/ Russwin, or Sargent. **#M-100**



**Carrying Case for M-100**

Large utility case for storing and carrying the mortiser, accessories and sideplates. Measures 18" x 8.5" x 8". **#M-120**



**ACCESSORY SIDEPLATES**

Use sideplate for drilling crossholes & mounting holes.

**Accessory Sideplates**

All A-1 Sideplates are manufactured of aircraft alloy and are hard anodized for longevity and durability. Use for drilling crossholes and mounting holes. Available in pairs only.

<b>Arrow #M-1</b>	<b>Simplex/Unican #M-5</b>
<b>Marks #M-2</b>	<b>Corbin/Russwin #M-6</b>
<b>Baldwin #M-3</b>	<b>Sargent #M-7</b>
<b>Schlage #M-4</b>	



**JIGS**

Fast & accurate.

**Installation Jig for Simplex**

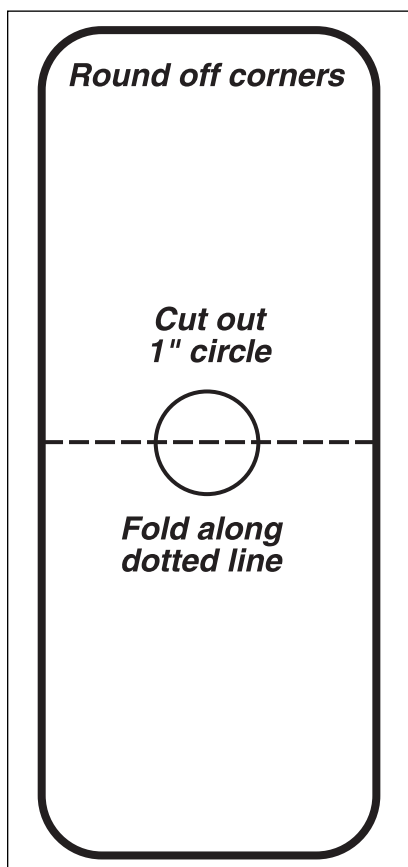
Locksmiths today are frequently installing more sophisticated hardware like Simplex/ Unican Series 1000. Accurate installation with a dedicated jig for Simplex means you won't lose money on the job by returning to correct inaccuracies. Each tool is designed to drill all crossholes — not just pilot holes. **#J-50**



**Installation Jig for Trilogy**

Make your installation fast, accurate and economical with a dedicated Jig for Trilogy. Installing just three locks a day pays for one of A-1's jigs in time savings alone. Each jig is designed to drill all crossholes — not just pilot holes. **#J-55**

Please Contact Your  
Locksmith Distributor



**Illustration C.**

discovered by accident. All of us who do automotive work have had calls to remove broken keys from Nissan's. Most of the time, the key is too worn to read or duplicate.

If you have an original for the car, usually indicated by the Nissan logo rubber head, simply cut the rubber head away, and find the code number underneath. On the older square head Nissan keys, the code was visible. On the newer style oval head keys, it is hidden. I use a razor knife to cut the rubber, and hold it in my vise to protect my fingers.

The code will be four numbers. Just add an "X" and look it up. I have done seven of these in the last two months, and the key was stamped with the code each time.

*Richard Cybrynski  
North Carolina*

**Major** MAJOR  
MANUFACTURING, INC. MANUFACTURING  
PRODUCTS  
WINNER:

#### Gate Operator Fix

About seven years ago the maintenance of the new turnstiles got dumped on me. No one else wanted it, the electricians balked because it was 24 volts, the maintenance guys didn't want it, because access control was involved, so I somehow got stuck with them.

Now the problem:

Security was telling me that when students exited immediately after another, the bar would sometimes jam, and they'd get a stiff punch in the gut, (or worse if they are shorter). After checking it out, I realized that a small spring-loaded part, called the anti-reversal pawl, would flip back and block



**Photograph 2.**

the gear in the arm. (See photograph 2.) This pawl prevents someone from "back-cocking" the turnstile to enter without a valid ID card.

Once the arm reaches its normal resting position, the pawl sits at rest. There's a space in the gear that allows it to travel in either direction

at that point. It seems that once that pawl reached that space, it would sort of spring back and forth a little too wildly and allow the gate to jamb.

The manufacturer's tech support department, while sympathetic, had never encountered this problem.



**Photograph 3.**

Photograph 3, shows the pawl removed from the turnstile. The large hole is where the pawl pivots. The smaller hole holds a pin that hits the spring and should activate it.

I suggested to tech support that I cut off about 3/8" from the "top" of the paw, to eliminate some counterweight. The tech guy said: "Why not, you got nothing to lose!"



**Photograph 4.**

Wouldn't you know? It worked! Here's the pawl after being cut down. (See photograph 4.)

I reinstalled the modified part in the turnstile. The elimination of the

weight at the top of the pawl allowed the pawl to come to a rest much more quickly, and it would not block the gear, no matter how hard I tried.

This is the kind of problem solving that really leaves me feeling good.

*Rick Duskiewicz  
New York*



#### LAGARD WINNER: Easier Shimming and Lock Decoding

The traditional way to shim open a lock involves slowly removing a blank key until each pin (from back to front) is raised to the shear line to allow the shim to pass under the top pins.

This is usually easy enough on locks that use standard pins. However, shimming can be tedious and frustrating when spool pins or serrated security pins are encountered, since they can trap the shim at the wrong height. I find shimming this way especially difficult on locks (such as American brand padlocks) that serrate bottom pins as well as top pins.

I've found that it is much easier to shim such locks (those with serrated pins) by using a set of depth keys to control the pin heights. Shimming a lock with depth keys is very easy and requires almost no practice.

Starting from the back of the lock, insert each depth key so that its tip cut is under the pin in question, and attempt to advance the shim. If the shim won't advance, try the next depth key. When the correct depth key is found, the shim will advance and you can move on to the next pin toward the front of the lock. If you want to ensure that any master pins always end up trapped in the plug, start with the deepest cut depth key at each pin position.

This technique has the added virtue of decoding the lock as it is being shimmed; simply keep track of which depth keys allowed the shim to advance at each pin position. If the lock is being shimmed so that it can be decoded to produce a key, there is no need to further disassemble the lock or measure the pins.

Of course, this procedure only works on locks that have been keyed to standard heights that correspond to your depth keys.

*Matt Blaze  
New Jersey*





# KEY KOP<sup>TM</sup> LOCKING KEY RINGS

**Cable Or Shackles  
For the Ultimate Key  
Control system**

600# Test Stainless Steel Cable  
With Stainless Steel Spring  
Overwrap

Polyurethane Protective  
Boots in 7 colors

4 Sizes  
6", 8", 12"  
& 18" Long  
(unlocked &  
extended)

Body Machined from Solid  
Aircraft Aluminum Bar Stock

3 Different Style of Lock to Choose  
from: Tubular, Duo or Medeco

Solid Stainless  
Steel Shackle

Protective Color Coded Boots

2 1/2" & 4" Round  
1 1/2", 3" & 5" Loop

Four Sizes  
Available

Solid Machined  
Aluminum  
Body

Choice of Locks



For:  
Schools  
Hospitals  
Prisons  
Factories  
Hotels  
Casinos  
& More



## TAMPER EVIDENT CLOSURES

**Keys Cannot Be Removed Except by Authorized  
Persons with the Correct Key!**

**CALL TODAY FOR OUR LOCKSMITH CATALOGUE**

### Value Vault

Economical Lock Box  
for Schools, Gyms,  
Pools, Etc.

4 3/4" x 4 3/4" x 8 1/2"



Welded Steel  
Black Powder  
Coat Finish

### LAUNDROMAT LOCKING PRODUCTS

Security Guards, Coin Boxes,  
Locking Extensions, Service Door  
Locks, Key holders, and more!



Extended Tubular Key Blanks  
For "Hide-a-Key Boxes"



TUBULAR NOVA TRIGARD DUO MEDECO



### Universal Coin Or Token Operated Bathroom Lock

For  
Restaurants  
Gas Stations  
Laundromats  
Airports  
Theaters  
Grocery Stores  
or Other Public  
Restrooms



Call Us  
Or See Our  
Web Site for  
Ordering  
Information



**www.monarchcoin.com**

**MONARCH**  
COVINGTON KENTUCKY

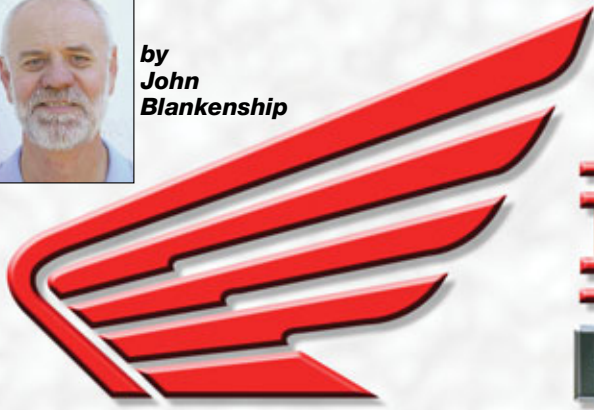
**800-462-9460**

**PH: (859) 261-4421**

**FX: (859) 261-7403**



by  
**John  
Blankenship**



# The **2002** **HONDA** **REFLEX**



1. This sporty scooter came out in 2001 and is powered by a 250cc single-cylinder engine. It has a new ignition/steering lock and a new, for the US, key blank.



2. This view from the drivers seat shows three of the four locks on this scooter. The ignition/steering lock is on top and is in the middle of the handlebars. The glove box lock is in the center and the gas lid lock is on the bottom.

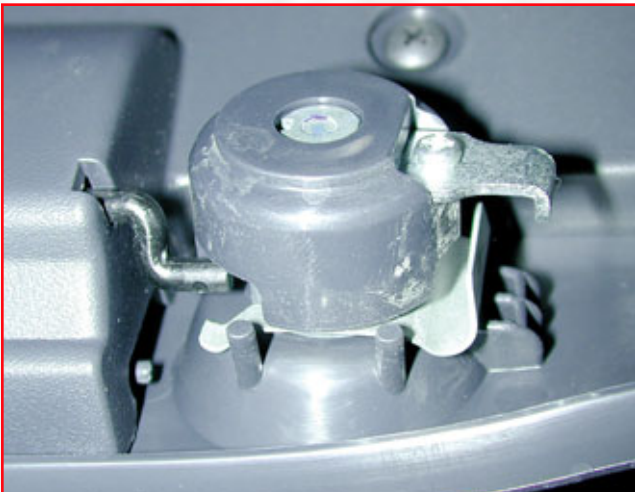


3. The new LLPO ignition/steering lock is shown in the OFF position. To lock the steering, push in on the plug and turn it counterclockwise to the LOCK position. The steering needs to be turned to the left or right to a position where the steering lock bolt is able to extend. The plug does not have to be pushed in to turn it from LOCK to OFF or to ON.





**4.** The glove box lock is shown in the unlocked position. Turn it 90 degrees counterclockwise to lock it.



**5.** The back of the glove box lock is shown. One horseshoe clip holds it in and it should disassemble easily once you remove the face cap. It contains five wafer tumblers in spaces 4-8.



**6.** The gas lid lock is shown. Turn it 90 degrees clockwise against spring pressure to open it.

**KeylessRide**  
Locksmiths' source for keyless entry remotes.

1.877.619.3136  
www.keylessride.com

©2003 KeylessRide. All Rights Reserved. All other trademarks are the sole property of their respective owners.





7. The back of the gas lid lock is shown and there is no code on it. One horseshoe clip holds it in and it should disassemble easily once you remove the face cap. It contains five wafer tumblers in spaces 4-8.

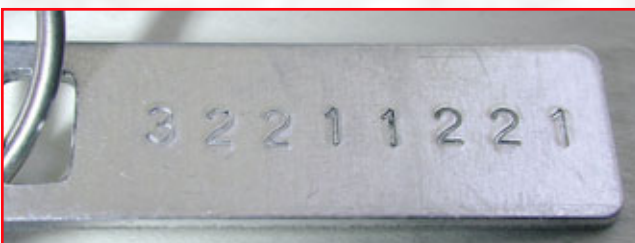


8. The seat lock is on the left side below the rear of the seat. Turn it 90 degrees clockwise against spring pressure to open it. The back of the lock is covered by plastic that will have to be removed to gain access to the back of the lock. It contains five wafer tumblers in spaces 4-8.

9. You can determine the cuts for spaces 4-8 by reading or disassembling the glove, gas or seat lock. The cuts for spaces 4-8 are 11223. These cuts on a HON42 blank turn the glove, gas and seat locks smoothly. The cut for the first space is always a 1 depth (no cut) so you can ignore it and just progression spaces 2-3 in the ignition lock. The codes are direct read so code software will not narrow down the number of progression try's. Only 3 depths are used so there are only 9 possible combinations for progressing cuts 2 & 3; 1st key: 11, 12, 13, 23, 33. 2nd key: 21, 31, 32. 3rd key: 22.



10. The original key is on the left. The code cut HON42 on the right has cuts of 12211223 and works all of the locks on the scooter. A Silca HON41 is the correct blank as it is the same as the original from shoulder to tip. The HON42 has longer milling but works just fine.



11. The code is on a metal tag that is supplied with the original keys. The code is direct read tip to bow.

**Codes:** 11111111-33333333 direct read tip to bow.

**Blank:** Ilco HON42, Silca HON41 or HON42

**Spacing:** 1=.098, 2=.197, 3=.295, 4=.394, 5=.492, 6=.591, 7=.689, 8=.787

**Depths:** 1=.276, 2=.244, 3=.213

**Card Number:** CF73

**DSD Number:** 173

**ITL Number:** 211

**Curtis:** HD-13 Cam & HD-13A Carriage

<b>Tumbler Locations:</b>	1 2 3 4 5 6 7 8
Ignition	XXXXXXX
Glove	XXXXX
Gas	XXXXX
Seat	XXXXX

**Ignition:** 1-8

**Glove:** 4-8

**Gas:** 4-8

**Seat:** 4-8





A good code program is a must  
for any professional locksmith

W.H. Software

# InstaCode

is just that and more...*plus it's easy to use!*

Using code books or an outdated code package is not the way forward for your business. Changing up to the most comprehensive and easy to use code program available is a move to greater efficiency and improved profitability.

The latest release of InstaCode includes over 5000 code series covering general/utility, padlock, vehicle and motorcycles. With over 20 million codes, and if you count direct codes also there are over 1.5 billion, it's the best.



SEARCH FOR ANY CODE



SPACE - DEPTHS - KEY BLANKS & MORE



ASP LOCK CATALOGUE



CAR OPENING INSTRUCTIONS



TRANSPONDER  
PROGRAMMING INSTRUCTIONS



CUT KEY



CARD FILE

## New features include:

- Nearly 9000 vehicles, manufacturers, models and years are listed so you can search for the exact vehicle to find the key blanks, codes and ASP car lock part numbers. Transponder programming and opening instructions

- Pictures of key blanks and key blank profiles.
- And of course we have added many more general and auto codes.

When you buy InstaCode you get everything. You don't have to buy another program to get add on features such as card printing, biting search, cutting trees, key blank cross-referencing etc. This one program has it all!

Take a look at how InstaCode stacks up against it's competitors with its totally cool range of features.

InstaCode is supplied on CD ROM and comes complete with an easy to follow step-by-step instruction manual. InstaCode runs on Windows 95/98/ME/NT/2000 and XP. It requires 32mb of RAM and 60mb of available hard disk drive space. Floppy disk images are included on the CD ROM so you may make your own set of floppy disks if required.

Order InstaCode now from your nearest distributor:

### North America

The National Locksmith

Phone: (630) 837 2044, Fax: (630) 837 1210

Email: NATLOCK@aol.com

### Australia

Locksmiths Supply Company

Phone: (3) 9329 7222, Fax: (3) 3929 2570

Email: lsc@lsc.com.au

### UK

Citysafe Wholesale

Phone: (2380) 814 181, Fax: (2380) 812 771

Email: cs-sales@easynet.co.uk

W.H. Software

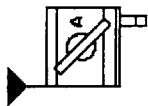
Westthorn House Software  
www.whsoftware.com

# FREE Code Cards!

from The National Locksmith®

COLLECT 'EM ALL!!

Spaces		Depths		Cutter: CW-1011		IC #: 053	
mm	Inch	mm	Inch	Jaw: A		Series	Original
1 485	191	0	735	289		1-1650	
2 802	316	1	690	272		1001-2000	670-12H21
3 1120	441	2	645	254		1-10	
4 1439	567	3	600	236		11-20	
5 1755	691	4	555	219		1501-2500	
		5	507	200		1651-3000	
		6	462	182		1E-10E	
		7	462	182		301-450	
						301E-450E	
						301R-450R	
						301T-450T	

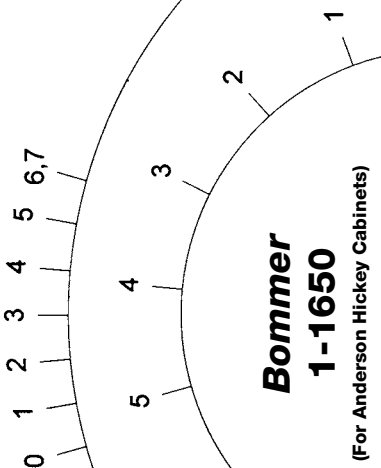


Align: Shoulder

For the exclusive use of the registered purchaser of InstaCode named below. Duplication or distribution of this material to anyone other than the registered purchaser is prohibited by law.

The National Locksmith®

Bommer 1-1650 (For Anderson Hickey Cabinets)

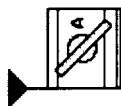


Copyright 1994 - 2002  
WH Software

InstaCode

Cut Along Outside of Card and Laminate To Use

Spaces		Depths		Punch		IC #: P053	
mm	Inch	mm	Inch	Jaw: A		Series	Original
1 485	191	0	735	289		1-1650	
2 802	316	1	690	272		1001-2000	670-12H21
3 1120	441	2	645	254		1-10	
4 1439	567	3	600	236		11-20	
5 1755	691	4	555	219		1501-2500	
		5	507	200		1651-3000	
		6	462	182		1E-10E	
		7	462	182		301-450	
						301E-450E	
						301R-450R	
						301T-450T	

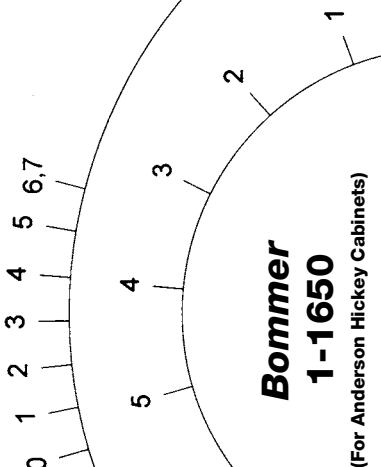


Align: Shoulder (Left Insertion)

For the exclusive use of the registered purchaser of InstaCode named below. Duplication or distribution of this material to anyone other than the registered purchaser is prohibited by law.

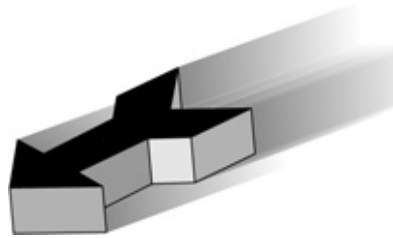
The National Locksmith®

Bommer 1-1650 (For Anderson Hickey Cabinets)



Copyright 1994 - 2002  
WH Software

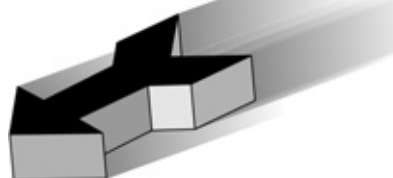
InstaCode



## BONUS Code Card

For the 1200CMB™

Flip 'em over for  
Silca,  
Curtis,  
Framon,  
A-1  
and  
ITL specs!



## Code Card

For the 1200PCH™

Courtesy of  
INSTA-CODE 2002™ from  
The National Locksmith



# KEY CODES

## Bommer 1-1650

**Manufacturer:** Bommer

**Code Series:** \_\_\_1-1650

### Key Blanks:

**Silca:** \_\_\_\_\_BOR1R

**Curtis:** \_\_\_\_\_C0106

**Alba:** \_\_\_\_\_HL2

**DL:** \_\_\_\_\_03M

**ESP:** \_\_\_\_\_C0106

**Jet:** \_\_\_\_\_HL1

**Kis:** \_\_\_\_\_HUD1

**Kraga:** \_\_\_\_\_U116

**Lotus:** \_\_\_\_\_BOM1

**Orion:** \_\_\_\_\_1003M

**Star:** \_\_\_\_\_5AU1

**Taylor:** \_\_\_\_\_22R14

**Ilco EZ:** \_\_\_\_\_C0106

**Ilco:** \_\_\_\_\_1003M

**Number of Cuts:** \_\_\_\_\_5

**M.A.C.S.:** \_\_\_\_\_2

**Key Gauged:** \_\_\_\_\_Shoulder

**Center of First Cut:** \_\_\_\_\_.191

**Cut to Cut Spacings:** \_\_\_\_\_.125

**Cut Depth Increments:** .081

(For Anderson Hickey Cabinets)

### Spacings:

1 - .191

2 - .316

3 - .441

4 - .567

5 - .691

### Depths:

0 = .289

1 = .272

2 = .254

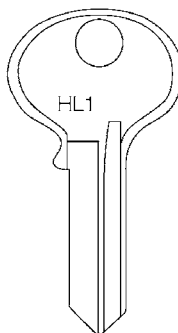
3 = .236

4 = .219

5 = .200

6 = .182

HUDSON, AUTH



HL1

### HPC 1200CMB

**Code Card:** \_\_\_\_\_C26

**Jaw:** \_\_\_\_\_A

**Cutter:** \_\_\_\_\_CW-1011

**Gauge From:** \_\_\_\_\_Shoulder

### HPC 1200PCH (Punch)

**PCH Card:** \_\_\_\_\_N/A

**Punch:** \_\_\_\_\_N/A

**Jaw:** \_\_\_\_\_N/A

### ITL

**Mfg ID:** \_\_\_\_\_222

### HPC CodeMax

**DSD #:** \_\_\_\_\_38

**Jaw:** \_\_\_\_\_A

**Cutter:** \_\_\_\_\_CW-1011

### Curtis No. 15 Code Cutter

**Cam-Set:** \_\_\_\_\_N/A

**Carriage:** \_\_\_\_\_N/A

### Framon #2

**Cuts Start at:** \_\_\_\_\_.191

**Cut to Cut Spacing:** .125

**Block #:** \_\_\_\_\_1

**Depth Increments:** \_\_\_\_\_.018

**Cutter:** \_\_\_\_\_FC8445

**Key Clamping Info:** Use

flip-up shoulder stop.

0001	10105	0023	14105	0045	11625	0067	01036	0089	42314	0111	26514
0002	30143	0024	01616	0046	01634	0068	15643	0090	23610	0112	63250
0003	05212	0025	52341	0047	65636	0069	36161	0091	14501	0113	51261
0004	23650	0026	43216	0048	15205	0070	23214	0092	25612	0114	21050
0005	52501	0027	12505	0049	14165	0071	11461	0093	03634	0115	02514
0006	43610	0028	33025	0050	35261	0072	52165	0094	23030	0116	31463
0007	12163	0029	01416	0051	51645	0073	04536	0095	43016	0117	64156
0008	63050	0030	53041	0052	56365	0074	00514	0096	10561	0118	25214
0009	11401	0031	16561	0053	23416	0075	25052	0097	41236	0119	44316
0010	15243	0032	32505	0054	04152	0076	33261	0098	33641	0120	53661
0011	16161	0033	02516	0055	16341	0077	24150	0099	32501	0121	36505
0012	43050	0034	24510	0056	55625	0078	03610	0100	53405	0122	22156
0013	31661	0035	12561	0057	05450	0079	40530	0101	26314	0123	10252
0014	53625	0036	24152	0058	13025	0080	51025	0102	41650	0124	61236
0015	30361	0037	31405	0059	16521	0081	32165	0103	35041	0125	13461
0016	41252	0038	22152	0060	02130	0082	24350	0104	50303	0126	14234
0017	51441	0039	10541	0061	54365	0083	46154	0105	21416	0127	34503
0018	00316	0040	02336	0062	35641	0084	22516	0106	13661	0128	45452
0019	14361	0041	10501	0063	20336	0085	42150	0107	41612	0129	62534
0020	04136	0042	25250	0064	16301	0086	10161	0108	20552	0130	46350
0021	21030	0043	43616	0065	13261	0087	03416	0109	03050	0131	14030
0022	41416	0044	10145	0066	26154	0088	20156	0110	35463	0132	50105

# Bommer 1-1650

0133	62330	0185	05630	0237	50252	0289	15131	0341	50414	0393	56141
0134	12636	0186	45016	0238	62516	0290	04462	0342	33151	0394	33243
0135	05250	0187	32030	0239	15135	0291	16363	0343	53513	0395	10452
0136	55241	0188	51131	0240	02424	0292	03056	0344	35425	0396	32341
0137	26130	0189	02156	0241	54056	0293	44310	0345	10341	0397	12105
0138	66152	0190	64134	0242	61652	0294	14214	0346	36210	0398	32561
0139	25636	0191	32636	0243	13243	0295	51515	0347	52614	0399	51425
0140	20514	0192	51045	0244	05216	0296	22426	0348	20240	0400	01056
0141	40350	0193	40356	0245	35403	0297	30321	0349	24646	0401	01450
0142	05036	0194	50230	0246	56236	0298	21652	0350	30165	0402	46136
0143	15025	0195	32414	0247	26462	0299	63014	0351	64336	0403	34632
0144	31263	0196	31003	0248	16103	0300	26512	0352	36234	0404	01414
0145	33005	0197	30236	0249	63636	0301	56416	0353	54521	0405	05030
0146	21216	0198	54630	0250	13135	0302	41450	0354	03014	0406	45252
0147	44512	0199	51351	0251	20262	0303	35131	0355	34125	0407	03216
0148	45636	0200	30456	0252	50503	0304	40404	0356	04530	0408	24114
0149	53005	0201	24026	0253	00136	0305	03616	0357	40464	0409	53131
0150	05610	0202	64264	0254	46132	0306	15461	0358	56412	0410	26404
0151	64152	0203	34030	0255	66156	0307	04620	0359	22536	0411	52125
0152	31623	0204	36141	0256	30565	0308	66262	0360	36101	0412	16541
0153	14636	0205	25256	0257	64626	0309	31643	0361	11353	0413	05652
0154	23236	0206	13315	0258	54610	0310	32054	0362	50361	0414	13625
0155	12056	0207	20426	0259	24262	0311	13551	0363	44136	0415	32452
0156	12610	0208	34214	0260	13425	0312	10565	0364	62350	0416	54034
0157	21636	0209	12165	0261	42514	0313	36363	0365	54652	0417	52216
0158	10414	0210	01252	0262	31513	0314	62154	0366	03436	0418	46420
0159	55405	0211	43034	0263	04350	0315	31551	0367	12341	0419	21056
0160	62130	0212	22136	0264	10412	0316	56165	0368	36305	0420	15241
0161	30436	0213	34610	0265	36614	0317	42116	0369	52523	0421	64514
0162	13513	0214	14341	0266	52030	0318	24462	0370	11241	0422	30232
0163	42402	0215	53023	0267	62462	0319	36256	0371	62512	0423	51313
0164	10125	0216	24316	0268	31425	0320	53151	0372	12256	0424	42620
0165	12161	0217	50212	0269	52052	0321	16325	0373	56550	0425	21452
0166	64026	0218	31553	0270	56214	0322	63214	0374	02646	0426	26330
0167	32450	0219	01230	0271	02552	0323	36436	0375	24224	0427	36634
0168	02620	0220	61214	0272	35151	0324	56252	0376	54305	0428	22404
0169	54161	0221	45632	0273	52450	0325	12141	0377	65416	0429	25436
0170	03430	0222	50236	0274	04046	0326	31315	0378	20130	0430	43634
0171	21616	0223	46226	0275	64240	0327	14303	0379	16256	0431	23250
0172	14141	0224	54563	0276	51463	0328	65014	0380	50412	0432	35003
0173	30036	0225	25630	0277	34052	0329	02316	0381	02462	0433	54236
0174	04026	0226	13025	0278	44024	0330	34252	0382	56341	0434	34303
0175	32361	0227	50452	0279	62026	0331	26640	0383	13401	0435	05236
0176	25210	0228	20536	0280	53551	0332	16143	0384	34236	0436	25014
0177	41056	0229	12450	0281	35153	0333	10301	0385	54212	0437	40136
0178	52525	0230	32614	0282	02046	0334	42530	0386	46204	0438	36452
0179	16216	0231	11535	0283	55205	0335	30214	0387	36561	0439	04044
0180	42024	0232	34416	0284	33265	0336	42426	0388	50563	0440	21230
0181	65056	0233	16230	0285	66350	0337	62640	0389	31205	0441	56303
0182	11041	0234	55153	0286	12016	0338	14525	0390	34014	0442	23450
0183	16250	0235	04024	0287	50163	0339	12501	0391	50325	0443	25416
0184	40226	0236	42046	0288	34165	0340	04310	0392	05410	0444	46314



# Bommer 1-1650

0445	03630	0497	52430	0549	64640	0601	26352
0446	41656	0498	20464	0550	16525	0602	45610
0447	63034	0499	62620	0551	64330	0603	55263
0448	21252	0500	11261	0552	55041	0604	14252
0449	40314	0501	36414	0553	26136	0605	24530
0450	05430	0502	02026	0554	16652	0606	35513
0451	41052	0503	03034	0555	25236	0607	63610
0452	23636	0504	13045	0556	33405	0608	46336
0453	41030	0505	65216	0557	12416	0609	40330
0454	65252	0506	56436	0558	55623	0610	32252
0455	32430	0507	23410	0559	30254	0611	46264
0456	52652	0508	15425	0560	66530	0612	63652
0457	35353	0509	02536	0561	12412	0613	52630
0458	64642	0510	64046	0562	00134	0614	42352
0459	43414	0511	05034	0563	34230	0615	14614
0460	51023	0512	53225	0564	43614	0616	03452
0461	10214	0513	15663	0565	34652	0617	04130
0462	32652	0514	23016	0566	04040	0618	35515
0463	46620	0515	30325	0567	31401	0619	42552
0464	45212	0516	42336	0568	02136	0620	04264
0465	40552	0517	12614	0569	14254	0621	15263
0466	32410	0518	31241	0570	32632	0622	62150
0467	04226	0519	24536	0571	01214	0623	34636
0468	03250	0520	20152	0572	53461	0624	44154
0469	45616	0521	33023	0573	04314	0625	14230
0470	51623	0522	41214	0574	31353	0626	04204
0471	14616	0523	12216	0575	42462	0627	51535
0472	16450	0524	15515	0576	16365	0628	52256
0473	36214	0525	62426	0577	66512	0629	46310
0474	61036	0526	51225	0578	32436	0630	24640
0475	55425	0527	35025	0579	56230	0631	35021
0476	25034	0528	65414	0580	44116	0632	54636
0477	63630	0529	53531	0581	55025	0633	33115
0478	52414	0530	04114	0582	04516	0634	62312
0479	20204	0531	65436	0583	12525	0635	62646
0480	43236	0532	12630	0584	25414	0636	24130
0481	61254	0533	61212	0585	04510	0637	46202
0482	10436	0534	33241	0586	20356	0638	55351
0483	34105	0535	12652	0587	36525	0639	20404
0484	64114	0536	54014	0588	62042	0640	50430
0485	02262	0537	13153	0589	15623	0641	16305
0486	16141	0538	42640	0590	32014	0642	35663
0487	05230	0539	35205	0591	22530	0643	04116
0488	63236	0540	12036	0592	62134	0644	10430
0489	50525	0541	50214	0593	34056	0645	32456
0490	30412	0542	36143	0594	04626	0646	14121
0491	10305	0543	51241	0595	26532	0647	53205
0492	45034	0544	16430	0596	24314	0648	20316
0493	66316	0545	62552	0597	54030	0649	66130
0494	40204	0546	13043	0598	43056	0650	34616
0495	31041	0547	53245	0599	36252	0651	54252
0496	65212	0548	26116	0600	21414	0652	12361

Take a tour  
of the new  
**AutoSmart  
Advisor™**  
Software!

[www.AutoSmartAdvisor.com](http://www.AutoSmartAdvisor.com)

**WWW.AUTOSMARTADVISOR.COM**

## Manufacturers & Distributors...

Interested in  
Mailing List Rental from  
*The National Locksmith®?*

Contact  
The Circulation Manager:  
**(630) 837-2044**

to learn how we  
can help you with  
your direct mail needs.



# Bommer 1-1650

0653	31245	0677	32305	0701	14632	0725	42262	0749	53535	0773	50125
0654	66354	0678	54361	0702	52103	0726	10543	0750	23616	0774	05614
0655	36630	0679	01652	0703	11425	0727	52145	0751	55641	0775	61012
0656	52236	0680	21436	0704	20530	0728	03030	0752	44536	0776	13205
0657	13155	0681	40114	0705	24024	0729	11663	0753	12252	0777	51151
0658	02240	0682	22130	0706	05416	0730	30232	0754	34436	0778	44246
0659	62404	0683	34365	0707	43252	0731	56256	0755	52305	0779	36121
0660	26246	0684	14414	0708	25430	0732	31351	0756	41012	0780	03652
0661	10363	0685	30216	0709	54341	0733	26626	0757	14036	0781	26646
0662	33205	0686	26204	0710	13643	0734	05014	0758	13515	0782	61454
0663	02352	0687	14305	0711	35225	0735	11645	0759	22620	0783	15403
0664	46536	0688	56121	0712	02464	0736	32656	0760	32525	0784	40514
0665	36230	0689	64226	0713	30105	0737	40262	0761	45236	0785	50216
0666	02442	0690	34341	0714	52563	0738	12543	0762	12034	0786	51135
0667	12305	0691	02152	0715	56525	0739	21612	0763	35315	0787	10236
0668	14563	0692	42156	0716	64552	0740	46516	0764	43652	0788	54325
0669	53441	0693	55315	0717	54503	0741	54125	0765	63436	0789	25030
0670	02510	0694	14163	0718	01436	0742	65436	0766	13403	0790	35265
0671	11531	0695	26336	0719	25632	0743	32230	0767	01434	0791	04552
0672	20462	0696	50145	0720	41256	0744	40156	0768	16456	0792	63056
0673	16361	0697	11243	0721	54450	0745	25454	0769	45414	0793	56232
0674	30525	0698	16414	0722	01236	0746	04662	0770	24136	0794	10365
0675	44350	0699	20446	0723	15225	0747	15421	0771	30452	0795	61430
0676	02664	0700	34361	0724	50434	0748	04426	0772	22646	0796	51203

## Electrifying Service that's *IRRESISTIBLE*



© 2003 Top Notch Distributors, Inc.

**Top Notch Distributors, Inc.**

**Carson City, NV**  
1-800-722-4210  
Fax: 1-800-248-3620

**St. Louis, MO**  
1-800-211-4607  
Fax: 1-800-211-4608

**Honesdale, PA**  
1-800-233-4210  
Fax: 1-800-854-4146

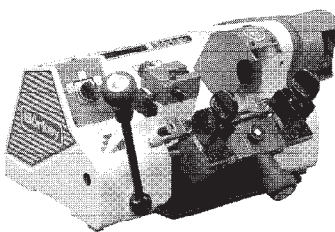
[www.4topnotch.com](http://www.4topnotch.com)



# Bommer 1-1650

0797	26536	0849	01034	0901	13621
0798	62332	0850	26150	0902	04242
0799	10234	0851	52036	0903	56363
0800	51353	0852	02154	0904	11025
0801	56503	0853	46356	0905	40336
0802	15261	0854	61410	0906	31531
0803	26446	0855	31515	0907	62156
0804	54121	0856	65430	0908	31441
0805	24310	0857	30212	0909	16323
0806	05252	0858	55461	0910	36412
0807	13421	0859	43014	0911	03456
0808	54143	0860	11335	0912	65612
0809	20246	0861	51401	0913	04532
0810	51041	0862	34036	0914	55203
0811	64130	0863	52325	0915	32610
0812	33401	0864	04352	0916	51531
0813	43052	0865	63030	0917	14014
0814	33043	0866	24426	0918	15661
0815	42316	0867	12143	0919	32250
0816	65034	0868	62354	0920	46152
0817	36365	0869	14612	0921	22352
0818	21036	0870	55225	0922	30414
0819	52543	0871	64020	0923	63256
0820	11441	0872	26534	0924	26114
0821	30145	0873	16436	0925	14436
0822	23652	0874	00312	0926	32630
0823	52454	0875	64530	0927	13151
0824	25230	0876	36236	0928	04224
0825	12365	0877	32103	0929	45032
0826	03012	0878	51641	0930	36650
0827	45410	0879	24552	0931	42246
0828	35623	0880	32036	0932	56434
0829	61054	0881	05436	0933	31511
0830	02530	0882	51005	0934	31021
0831	10434	0883	16234	0935	10230
0832	51513	0884	04336	0936	42534
0833	21032	0885	35245	0937	23056
0834	14654	0886	52436	0938	65630
0835	64310	0887	15153	0939	14256
0836	02314	0888	25452	0940	46462
0837	50341	0889	12014	0941	26310
0838	32563	0890	35335	0942	56452
0839	22512	0891	50256	0943	15625
0840	45214	0892	20352	0944	31335
0841	33645	0893	02550	0945	42662
0842	53155	0894	62024	0946	62204
0843	02402	0895	23456	0947	13351
0844	31225	0896	45652	0948	53003
0845	52361	0897	15441	0949	34410
0846	12436	0898	54054	0950	34161
0847	32145	0899	66356	0951	05412
0848	43452	0900	20330	0952	53265

## All-new Börkey Rexa 2000 PLUS



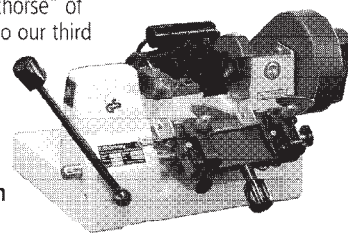
Built to last for years of dependable service and high-volume key cutting! NEW 4-way jaws are precision ground for easy gripping of all cylinder keys. Comes with wire brush.

**Heavy-duty and ACCURATE!**

## The famous Börkey Rexa 3

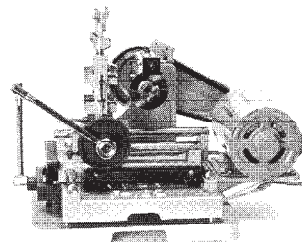
Established as the "workhorse" of key machines. We are into our third decade of selling and servicing Rexa machines.

**Fast and accurate, a great choice and a great key machine! Just ask the locksmith who owns one!**



## Steel King

Cuts all types of bit & barrel keys *and* it does a great job on safe deposit & steel padlock keys! Long keys are not a problem and the Steel King cuts even double-bitted safe keys with ease.



**You'll wonder how you ever got along without it!**

## DiMark International

WHERE IT'S LOCKSMITH TO LOCKSMITH

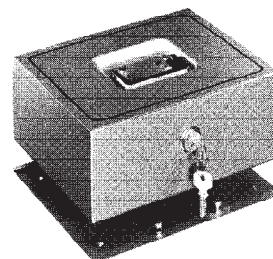
3117 Liberator St., Unit A • Santa Maria, CA 93455

**800-235-2435**

Visit us at [www.dimarkinternational.com](http://www.dimarkinternational.com)

## Mitey-Tite Security Box

The unique lock-down plate offers your customers a higher standard in a security box—more secure than some "safes"! Available in three sizes. We have many different models of cash boxes and key storage systems, too.



**Our customers tell us that our catalog is "FUN!" It's available for a meager pittance to cover postage. (Meager pittance is refundable with your next order.) Call today! We accept all four major credit cards.**

# MasterLink

Security Products, Inc.

3863 NW 19th Street, Fort Lauderdale, FL 33311

**877.347.9669**

masterlink@mindspring.com

## LOGINOX GATE LOCKS

Completely installable by a locksmith

- Utilizes European style cylinder
- Supplied YALE 8 Double cylinder, will accept all standard profiles including:

Medeco

MultiLock

DOM

ASSA

Schlage &

other high

security

cylinders

- Average installation time is 30 minutes (with experience)
- Strikes available for posts up to 3"
- Will fit round and square tubing
- Entrance or Double Store Room Function (Institutional)

**CALL FOR PRICES!!!**



Circle 249 on Rapid Reply

## Code Software Now Just \$198!

### CODEMASTER

Code Series	Category or Mfg.	Application	Blank #
R1-R250	VALE	DRAWERS	S7JA
R01-R01000	FOREIGN AUTO	MASERATI	X50
R01-R0100	CHICAGO	FILE CABS	104T
0080-9999	US AUTOMOTIVE	G.M.	\$1098D
10501-15500	COMBO LOCK	MASTER	

**Celebrating our 20th Year!**  
**Why Pay More?**

CodeMaster (Codes on disk)	\$689.....	198 <sup>95</sup>
PerfectMaster (masterkeying)	\$289.....	189 <sup>95</sup>
KeyWiz (finds missing auto cuts)	\$289.....	189 <sup>95</sup>
TimeMaster (dispatching)	\$289.....	99 <sup>95</sup>
AutoMaster (auto encyclopedia)	\$189.....	99 <sup>95</sup>
MasterKard (prints code cards)	\$139.....	69 <sup>95</sup>
MaxiKey (non-mastered keying)	\$139.....	69 <sup>95</sup>
Advantage (inventory & invoicing)	\$149.....	79 <sup>95</sup>
KeyManager (keyblank cross ref)	\$99.....	69 <sup>95</sup>

Free Demo at [www.treskat.com](http://www.treskat.com)

All major credit cards accepted.  
**CALL TOLL FREE**

**1-800-645-5657**

(outside USA 1-407-870-9696)

**Treskat USA Corp.**

725 Adriane Park Cir • Kiss, FL 34744

[www.treskat.com](http://www.treskat.com)

# Bommer 1-1650

0953	43214	1005	44150	1057	04020	1109	26316
0954	26530	1006	61252	1058	33461	1110	55115
0955	14125	1007	56616	1059	45030	1111	23052
0956	04330	1008	11265	1060	14452	1112	34363
0957	22316	1009	56143	1061	54216	1113	12054
0958	53043	1010	14212	1062	20134	1114	50301
0959	05636	1011	51153	1063	13353	1115	61436
0960	66264	1012	33625	1064	21430	1116	15405
0961	55021	1013	10256	1065	55023	1117	10361
0962	22514	1014	31261	1066	24336	1118	50456
0963	35313	1015	23630	1067	50254	1119	36541
0964	41632	1016	32541	1068	46330	1120	35203
0965	52014	1017	42446	1069	51335	1121	50143
0966	13021	1018	51661	1070	30503	1122	21014
0967	64204	1019	46354	1071	31625	1123	15041
0968	10325	1020	32034	1072	62240	1124	42240
0969	51205	1021	15045	1073	45014	1125	32163
0970	14250	1022	64354	1074	32616	1126	11315
0971	20314	1023	50210	1075	04640	1127	52321
0972	51315	1024	04356	1076	36165	1128	45436
0973	53241	1025	14521	1077	46532	1129	35023
0974	30301	1026	25652	1078	54301	1130	61032
0975	63632	1027	14325	1079	32105	1131	12414
0976	15265	1028	22420	1080	46640	1132	15201
0977	42136	1029	10216	1081	53515	1133	04312
0978	05254	1030	05052	1082	44264	1134	02264
0979	35661	1031	26554	1083	34010	1135	53553
0980	11555	1032	04262	1084	56321	1136	46316
0981	02424	1033	34301	1085	01054	1137	64314
0982	40130	1034	52034	1086	45430	1138	44152
0983	31461	1035	02532	1087	55421	1139	52056
0984	24626	1036	34614	1088	36301	1140	65214
0985	64532	1037	16303	1089	56414	1141	12325
0986	12656	1038	63414	1090	20226	1142	02640
0987	36341	1039	42356	1091	05232	1143	33403
0988	04154	1040	55313	1092	25456	1144	62314
0989	64516	1041	16212	1093	33045	1145	16232
0990	10454	1042	50103	1094	26332	1146	35643
0991	44226	1043	22026	1095	64136	1147	62466
0992	62336	1044	15021	1096	41652	1148	52301
0993	02420	1045	66202	1097	35241	1149	36523
0994	42664	1046	36123	1098	16125	1150	20114
0995	31443	1047	13005	1099	32650	1151	13441
0996	64624	1048	43036	1100	52632	1152	22042
0997	16321	1049	65632	1101	01654	1153	04334
0998	14054	1050	35043	1102	62020	1154	44516
0999	51553	1051	14161	1103	00350	1155	45052
1000	04624	1052	01650	1104	54541	1156	66314
1001	42404	1053	42424	1105	41032	1157	53155
1002	15463	1054	62446	1106	66136	1158	12236
1003	30125	1055	23032	1107	20424	1159	55043
1004	24132	1056	33155	1108	63230	1160	04622



# Bommer 1-1650

1161	02134	1213	40556	1265	05452	1317	51461	1341	54656	1365	30230
1162	56305	1214	26110	1266	15023	1318	02622	1342	14561	1366	00154
1163	61630	1215	13225	1267	44130	1319	22314	1343	11043	1367	21236
1164	54614	1216	35441	1268	25054	1320	55403	1344	51355	1368	32323
1165	04132	1217	14430	1269	51421	1321	62624	1345	14503	1369	40332
1166	40134	1218	52410	1270	20402	1322	55265	1346	01256	1370	65452
1167	23612	1219	36125	1271	42025	1323	43210	1347	31641	1371	46426
1168	11263	1220	11641	1272	30523	1324	12125	1348	46510	1372	23654
1169	66310	1221	00336	1273	04646	1325	32143	1349	14363	1373	16503
1170	15151	1222	53315	1274	65634	1326	24662	1350	46512	1374	63452
1171	24154	1223	40154	1275	44510	1327	43636	1351	52230	1375	32214
1172	61030	1224	31025	1276	10456	1328	31203	1352	16412	1376	56361
1173	03454	1225	43436	1277	56410	1329	66462	1353	13313	1377	26350
1174	53201	1226	53641	1278	46134	1330	32032	1354	04534	1378	34561
1175	31645	1227	20532	1279	66352	1331	63430	1355	62356	1379	61412
1176	02040	1228	56634	1280	32236	1332	45010	1356	01254	1380	15645
1177	63654	1229	04316	1281	40246	1333	01412	1357	31535	1381	65614
1178	33225	1230		1282	61452	1334	34103	1358	46550	1382	36503
1179	52363	1231	32432	1283	30163	1335	04242	1359	04424	1383	24356
1180	05632	1232	16563	1284	66336	1336	55003	1360	31045	1384	41454
1181	15465	1233	32016	1285	02004	1337	16614	1361	50101	1385	15621
1182	66330	1234	53103	1286	41414	1338	04420	1362	24116	1386	56325
1183	25016	1235	15245	1287	51243	1339	16434	1363	36163	1387	14610
1184	44352	1236	45210	1288	16145	1340	33003	1364	42114	1388	53263
1185	36416	1237	26442	1289	20334						
1186	62114	1238	65030	1290	52503						
1187	56612	1239	42642	1291	62040						
1188	51155	1240	03636	1292	32363						
1189	01250	1241	31421	1293	03410						
1190	52252	1242	56430	1294	46246						
1191	02356	1243	26134	1295	32412						
1192	54525	1244	53113	1296	10165						
1193	64352	1245	24226	1297	50416						
1194	43656	1246	51543	1298	33461						
1195	50432	1247	64116	1299	04110						
1196	64620	1248	04112	1300	32325						
1197	22642	1249	36420	1301	61230						
1198	05634	1250	43040	1302	11225						
1199	44530	1251	62514	1303	56632						
1200	50234	1252	33041	1304	03614						
1201	35405	1253	56636	1305	12452						
1202	11623	1254	54105	1306	05434						
1203	46130	1255	31663	1307	42230						
1204	32416	1256	64510	1308	11403						
1205	56161	1257	04202	1309	31331						
1206	01044	1258	23436	1310	43254						
1207	62152	1259	51223	1311	03236						
1208	45404	1260	24330	1312	13241						
1209	26426	1261	54616	1313	34141						
1210	16163	1262	24514	1314	04156						
1211	55441	1263	11421	1315	23036						
1212	35005	1264	52105	1316	13623						

## New! Keedex Stainless Steel Armored Door Loops



ALL  
STAINLESS STEEL  
DESIGN

FLEXIBLE STAINLESS  
STEEL CONDUIT

STAINLESS STEEL  
END PIECES

STAINLESS STEEL  
MOUNTING SCREWS

COSTS NO MORE  
THAN MOST DOOR  
LOOPS THAT HAVE  
PLASTIC END PIECES

AVAILABLE FROM YOUR  
KEEDEX DISTRIBUTOR

MADE IN U.S.A.



"Ideas That Work"

Call or write today  
for your free catalog!

Keedex, Inc.

12931 Shackelford Lane  
Garden Grove, CA 92841

714-636-5657 • Fax: 714-636-5680

e-mail: info@keedex.com

www.keedex.com

# Bommer 1-1650

1389	42626	1414	22402	1439	16565	1492	32503	1545	33441	1598	32612
1390	05054	1415	16105	1440	55113	1493	11355	1546	04354	1599	46242
1391	64350	1416	05432	1441	02556	1494	25010	1547	52612	1600	34525
1392	51511	1417	55135	1442	46220	1495	30252	1548	20350	1601	32543
1393	15043	1418	24046	1443	52636	1496	11245	1549	35045	1602	24242
1394	34430	1419	12554	1444	50141	1497	42464	1550	66246	1603	20332
1395	56212	1420	50436	1445	04664	1498	16636	1551	41430	1604	51201
1396	23230	1421	33621	1446	30256	1499	36410	1552	36434	1605	45416
1397	51311	1422	63614	1447	26550	1500	42646	1553	11463	1606	13463
1398	02626	1423	16543	1448	04512	1501	13241	1554	22462	1607	63634
1399	04514	1424	33425	1449	63036	1502	24620	1555	31533	1608	16214
1400	61634	1425	55463	1450	14652	1503	05032	1556	04464	1609	53511
1401	20264	1426	22552	1451	32634	1504	31355	1557	51425	1610	31243
1402	43230	1427	30365	1452	40352	1505	54036	1558	36145	1611	11513
1403	15221	1428	10250	1453	22040	1506	25212	1559	46352	1612	02042
1404	33463	1429	62556	1454	33663	1507	63234	1560	14634	1613	61256
1405	46114	1430	36254	1455	40202	1508	22336	1561	46312	1614	50323
1406	54145	1431	01030	1456	16345	1509	55663	1562	13511	1615	34054
1407	10163	1432	56254	1457	26642	1510	51553	1563	50232	1616	52210
1408	62440	1433	44314	1458	50365	1511	44532	1564	16254	1617	02512
1409	36105	1434	14630	1459	62530	1512	14541	1565	20442	1618	13203
1410	05016	1435	52163	1460	45634	1513	36232	1566	35351	1619	31423
1411	26132	1436	34412	1461	52410	1514	54256	1567	15203	1620	51263
1412	45614	1437	22626	1462	32365	1515	24624	1568	42536	1621	62310
1413	50123	1438	05612	1463	14416	1516	13245	1569	53621	1622	16236
				1464	62464	1517	55131	1570	02426	1623	50034
				1465	10521	1518	31621	1571	46402	1624	23656
				1466	03654	1519	02554	1572	12214	1625	30410
				1467	10432	1520	32125	1573	31403	1626	55311
				1468	20354	1521	32654	1574	40534	1627	16505
				1469	05650	1522	16123	1575	56145	1628	22664
				1470	41234	1523	05234	1576	26624	1629	45036
				1471	61632	1524	33263	1577	63612	1630	23430
				1472	13535	1525	22134	1578	30416	1631	04642
				1473	31265	1526	16252	1579	15641	1632	62242
				1474	25032	1527	54163	1580	35625	1633	30303
				1475	53021	1528	30341	1581	10345	1634	13263
				1476	24352	1529	02534	1582	40536	1635	52121
				1477	04240	1530	25616	1583	14365	1636	34541
				1478	30345	1531	42532	1584	34612	1637	23252
				1479	62536	1532	12250	1585	02246	1638	45620
				1480	30363	1533	45012	1586	01432	1639	40512
				1481	02330	1534	13465	1587	35115	1640	32143
				1482	34256	1535	54452	1588	62642	1641	42130
				1483	61612	1536	02642	1589	53353	1642	15223
				1484	04246	1537	66536	1590	64024	1643	05214
				1485	24042	1538	42512	1591	36321	1644	50345
				1486	55401	1539	16343	1592	44552	1645	43630
				1487	54363	1540	62510	1593	36543	1646	52214
				1488	36636	1541	32052	1594	44046	1647	12456
				1489	20554	1542	12430	1595	53351	1648	30343
				1490	51245	1543	54634	1596	26202	1649	03016
				1491	01410	1544	63016	1597	56521	1650	30052

## A NOTE FROM THE CIRCULATION MANAGER

I don't want **you** to be left out... but sometimes we do run out of back issues. Please be sure to send in your **Renewal Payment** on time and your **Change of Address** at least 4 weeks in advance. Then you won't be the one receiving a note saying, "Sorry, we ran out."

Send your name, old address and new address to:

The National Locksmith  
Address Change Dept.  
1533 Burgundy Pkwy.  
Streamwood, IL 60107.



# TheNationalLocksmith.com

Technical forums, chat, online store, plus  
visit our sponsors...

## WEB REVIEW

### Omaha Wholesale Hardware

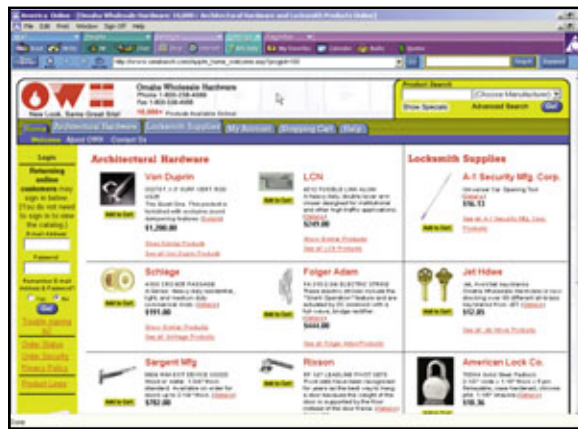
<http://www.omahawh.com>



Omaha Wholesale Hardware has put together a really nice site to quickly browse and shop online. Although they show a great number of items online, they have divided their offerings by manufacturer to allow for rapidly finding what you need.

Moreover, search functions are quick and efficient. In fact, we were impressed with how quickly this site loads, and then locates what you want. OWH concentrates online on locksmith specials where you can find sale merchandise fast. Also impressive is the fact that you can order online as well.

Whether you prefer to search by manufacturer or product category, results are returned very quickly. You get to see an illustration of many products, full descriptions, see the online price, and make an immediate purchase if you wish.



#### A-1 Security Mfg. Corp.



[www.demanda1.com](http://www.demanda1.com)

#### A&B Safe Corporation



[www.a-bsafecorp.com](http://www.a-bsafecorp.com)

#### Abloy® DiskLock Pro



[info@abloy.ca](mailto:info@abloy.ca)

#### Adrian Steel



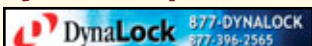
[www.adriansteel.com](http://www.adriansteel.com)

#### DiMark International



[www.dimarkinternational.com](http://www.dimarkinternational.com)

#### Dynalock Corp.



[www.dynalock.com](http://www.dynalock.com)

#### Framon Mfg. Co.



[www.framon.com](http://www.framon.com)

#### Herbert L. Flake Co.



[www.hlflake.com](http://www.hlflake.com)

#### Gator Tool Co.



[www.aduxpond.com](http://www.aduxpond.com)

#### HPC, Inc.



[www.hpcworld.com](http://www.hpcworld.com)

#### Indiana Cash Drawer Co.



[www.icdpos.com](http://www.icdpos.com)

#### International Locking Devices, Ltd.

International Locking Devices, Ltd.

[www.gatelock.com](http://www.gatelock.com)

#### Jet Hardware Mfg. Co.



[www.jetkeys.com](http://www.jetkeys.com)

#### KSP



[www.iccore.com](http://www.iccore.com)

#### KustomKey



[www.kustomkey.com](http://www.kustomkey.com)

#### Major Manufacturing



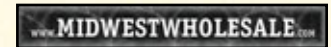
[www.majormfg.com](http://www.majormfg.com)

#### McDonald DASH Locksmith Supply



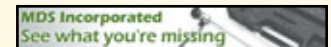
[www.mcdonaldsdash.com](http://www.mcdonaldsdash.com)

#### Midwest Wholesale



[www.midwestwholesale.com](http://www.midwestwholesale.com)

#### MDS, Inc.



[www.mdsincorporated.com](http://www.mdsincorporated.com)

#### Monaco Lock



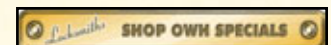
[www.monacolock.com](http://www.monacolock.com)

#### National Auto Lock Service, Inc.



[www.laserkey.com](http://www.laserkey.com)

#### Omaha Wholesale Hardware



[www.omahawh.com](http://www.omahawh.com)

#### SecuraKey



[www.securakey.com](http://www.securakey.com)

#### Securitron Magnalock



[www.securitron.com](http://www.securitron.com)

#### Select Products Ltd.



[www.select-hinges.com](http://www.select-hinges.com)

#### Sieveling Products Co.



[www.sievelingprodco.com](http://www.sievelingprodco.com)

#### TekTone



[www.tektone.net](http://www.tektone.net)

#### Yale Security Group



[www.yalesecurity.com](http://www.yalesecurity.com)

Manufacturers and distributors... join the high profile locksmith web site and you'll be featured here!

Call Jeff Adair (ext. 15) or Debbie Schertzing (ext. 16) for details. (630) 837-2044

Taking Industry Products for a...

# TEST DRIVE

## Electronic Safe by PRO-LOK®



**C**ategorized as an affordable entry level safe, PRO-LOK is offering two electronic safes for use in a variety of applications. The Model GLSF-08 is 13-3/4" wide by 10" deep by 10" high. The Model GLSF-10 is 15" wide by 12" deep by 12" high. Both feature an electronic lock with a telephone style 10-digit keypad with the addition of two letter keys—A & B that operates on the included 4AA batteries. Each unit also features a manual override key lock hidden under a removable escutcheon next to the keypad. The lock is a true double-sided 8-wafer lock (four on each side) supplied with two keys.

### Construction:

Each safe features solid steel construction, with the door being 1/4" thick and the body 1/8", weighing in at 34 lbs., for the model GLSF-08 shown. Both units are topped with a matt gray finish. Each safe has a fairly substantial feel to it. The interior has a removable shelf, and two chrome plated 3/4" bolts secure the unit. The locking bolts can be locked in either the open or closed position.

The safe can be used as a free standing unit for ease of mobility or secured with the four anchor bolts supplied with the unit.

As a bonus, each safe also comes with a free steel lock box with a handle and removable tray, containing compartments to hold money, jewelry, watches or other small items. The bonus lock box is 7-3/4" wide by 6-1/4" deep by 3-1/2" high. The lock box is secured with a single sided 5-wafer lock and easily stores on the shelf in the safe.

### Operation:

To open the unit, enter the factory programmed combination and a green light on the keypad will come on. Turn the black bolt control knob to the right to open the safe. The green light will stay light for 5 seconds. If the locking bolts are not thrown to the locked position within that time, the unit will lock the bolts in the open position, at which time the combination will need to be re-entered to throw the bolts to the locked position.

### Combination Changing:

To change the factory code, there is a red button on the inside edge of the door on the hinge side. Press the button and a yellow light on the keypad will come on. Enter 3–8 digits on the keypad that you select and then press the "A" key, at which time the yellow light will turn off. Re-enter the new combination and the unit should open. Remember to enter the "A" key after the combination for the unit to open. When you press each key the yellow light will flash and a beep confirming an entry will sound.

To lock the safe when the bolts are locked in the open position, enter the combination followed by the "B" key. The green light on the keypad will come on and the bolts can be thrown. When the green light turns off, the unit is locked.

If the batteries should fail, the key override can be used to unlock the safe.

### Test Endurance:

According to PRO-LOK these electronic safes are California approved firearms safety devices that meet the requirements of California Penal Code

### IN SUMMARY:

**DESCRIPTION:** An Affordable entry level electronic safes.

**PRICE:** \$68.72 and \$92.95

**COMMENTS:** Would make a great little gun safe.

**TEST DRIVE RESULTS:** For the price, these electronic safes are hard to beat.

Section 12088 and the regulations issued thereunder. The units are said to have passed tests for: picking, manipulation, forced removal, tensile, shock, plug pulling, plug torque, sawing and dropping. While I can't dispute the passage of these tests, I can say that I did pick the double-sided override lock in 8-seconds, without the proper fork style turning tool.

### Price:

The suggested dealer price for the GLSF-08 is \$68.72. For the larger GLSF-10 it's \$92.95, and that includes the bonus lock box.

### Comments:

For the price, these electronic safes are hard to beat. They are perfect for a home, office, RV, service vehicle, or for a son or daughters dorm room. The fit and finish was good, it operated without problems and would make a great little gun safe. The combination was easy to change and the battery compartment was easy to access.

The units are packaged for retail sales in an attractive four color box that clearly details every aspect of the unit.

These safes can be sold as an impulsive item and should be clearly displayed, and the colorful packaging is sure to draw attention.

*For more information contact:*

**PRO-LOK®**  
655 N. Hariton St.  
Orange, CA 92868  
Phone: (714) 633-0681  
Fax: (714) 633-0470  
E Mail: [mail@pro-lok.com](mailto:mail@pro-lok.com)  
Web: [www.pro-lok.com](http://www.pro-lok.com) **TNL**